

## Recovery Plan Action Status

**Plan Name:** Draft Recovery Plan for Three of the Five Distinct Population Segments of Bull Trout (*Salvelinus confluentus*)

**Plan Status:** Draft

**Plan Date:** 29-Nov-02

**Lead Agency:** USFWS

**Lead Office:** Idaho Fish And Wildlife Office

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378-3243 )

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout ( <i>Salvelinus confluentus</i> )	2	1. 1. 1	Reduce general sediment sources	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Transportation, Oregon Department of Forestry, Irrigation Districts, Hood River County, Oregon, Longview Fibre Company, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See road assessment in Watershed Assessment
Bull Trout ( <i>Salvelinus confluentus</i> )	2	1. 1. 2	Reduce nutrient and chemical runoff	Unknown			Oregon Department of Agriculture, Oregon Department of Environmental Quality, Hood River Grower-Shipper Association, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing and changes with landowner and new development
Bull Trout ( <i>Salvelinus confluentus</i> )	2	1. 1. 3	Improve water temperature below Laurance Lake during spawning period	Unknown			Oregon Department of Environmental Quality, Middle Fork Irrigation District, U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Needs further research; MF mainstem,
Bull Trout ( <i>Salvelinus confluentus</i> )	1	1. 2. 1	Reestablish connectivity at Clear Branch Dam	Unknown			Oregon Department of Fish and Wildlife, Middle Fork Irrigation District, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1. 2. 2	Provide passage at Coe Branch Diversion	Unknown			Oregon Department of Fish and Wildlife, Middle Fork Irrigation District, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1. 2. 3	Determine passage options at Tony Creek and Powerdale Dam	Unknown			Oregon Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company, Hood River Watershed Group, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1. 2. 4	Improve fish passage at road crossings	Unknown			Oregon Department of Fish and Wildlife, Oregon Watershed Enhancement Board, Longview Fibre Company, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Pinnacle Creek bridge completed 2002.
Bull Trout (Salvelinus confluentus)	2	1. 2. 5	Determin the presence and extent of gas supersaturation at Powerdale and Clear Branch Dams	Unknown			Oregon Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company, Irrigation Districts, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Actual costs will depend on any structural improvements
Bull Trout (Salvelinus confluentus)	1	1. 2. 6	Screen diversions and ditches	Unknown			Oregon Department of Fish and Wildlife, Irrigation Districts, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1. 2. 7	Improve instream flows	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Irrigation Districts, Hood River Watershed Group, Bonneville Power Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Related to 1.2.6

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Bull Trout (Salvelinus confluentus)	2	1. 3. 1	Protect and restore riparian zones	Unknown			Oregon Department of Agriculture, Oregon Department of Forestry, Oregon Department of Environmental Quality, Hood River Watershed Group, Hood River County, Oregon, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1. 3. 2	Restore channel conditions	Unknown			Oregon Department of Fish and Wildlife, Hood River Watershed Group, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1. 4. 1	Evaluate effects of Columbia River Dams	Unknown			Oregon Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Initial consultation completed
Bull Trout (Salvelinus confluentus)	1	1.1.1	Assess roads and identify problem roads	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, U.S. Bureau of Land Management, U.S. Federal Highway Administration, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	1.1.1	Conduct watershed assessments	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.1.1	Assess sediment sources in Malheur Basin affecting bull trout	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	1	1.1.1	Investigate and improve water quality	Unknown			Washington Department of Ecology, Pend Oreille County, Washington, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.1.1	Reduce general sediment sources	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Idaho Watershed Advisory Groups, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Federal Highway Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	1	1.1.1	Eliminate or reduce the number and length of stream segments with impaired water quality	Unknown			County governments, Idaho Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	1.1.1	Conduct limiting factors analysis for water quality problems in the upper Klickitat River	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, PacifiCorp, Pacific Power & Light Company, Yakama Nation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.1.1	Reduce sediment production from roads and other sources (e.g., mines, over-grazed areas) known to be contributing sediment to streams.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Transportation, Oregon Department of Forestry, Idaho Department of Environmental Quality, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing. Coordinate with task 1.1.2.
Bull Trout (Salvelinus confluentus)	1	1.1.1	Reduce sediment production from roads.	Unknown			Idaho Department of Environmental Quality, Idaho Transportation Department, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.1.1	Reduce fine sediment production	Unknown			County governments, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Idaho Watershed Advisory Groups, Plum Creek Timber Company, Idaho Soil Conservation Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.1.1	Investigate alternatives to improve low flow conditions.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.1.1	Reduce general sediment sources	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, U.S. Department of Transportation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.1.1	Develop and implement a management strategy to reduce sediment levels on National Forest and private lands in the Badger Creek watershed	Unknown			Idaho Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing, cost estimate for strategy development.
Bull Trout (Salvelinus confluentus)	1	1.1.1	Identify problem roads that cause sediment delivery	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Coeur d'Alene Tribe, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.1.1	Reduce mining runoff.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.1.1	Reduce general sediment sources	Unknown			Odell Lake Bull Trout Recovery Unit Team, Union Pacific Railroad	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.1.1	Identify and reduce sources of excessive fine sediment delivery	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Boise Cascade Corporation, Inc., U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Take corrective action if necessary and appropriate
Bull Trout (Salvelinus confluentus)	2	1.1.1	Identify sources of sediment delivery.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Take corrective action if necessary and appropriate.
Bull Trout (Salvelinus confluentus)	2	1.1.1	Reduce sediment inputs.	Unknown			Oregon Department of Transportation, Watershed councils, Oregon Department of Forestry, Soil and Water Conservation Districts, Private Timber Companies (in Oregon), U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See Watershed Assessments and Travel Management Plans
Bull Trout (Salvelinus confluentus)	3	1.1.1	Investigate extent of sediment input from road network in North Fork Meacham Creek watershed	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	This task will be accomplished through implementation of Forest Plan revisions.
Bull Trout (Salvelinus confluentus)	3	1.1.1	Complete access and travel management plan for Federal lands in the upper Middle Fork Willamette River	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Through Access and Travel Management Planning



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Bull Trout (Salvelinus confluentus)	3	1.1.1	Stabilize roads, crossings, and other sources of sediment delivery.	Unknown			Deschutes River Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	2	1.1.10	Increase water quality monitoring	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.10	Minimize recreational development in bull trout spawning and rearing habitat	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	1.1.10	Identify trespass grazing	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	1.1.10	Eliminate point and nonpoint source pollution from developed and dispersed recreation sites	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	CWA required costs
Bull Trout (Salvelinus confluentus)	3	1.1.10	Investigate extent of water quality problems associated with residences (septic discharges) along the river in the Umatilla Core Area on bull trout streams	Unknown			Oregon Department of Environmental Quality, Walla Walla Watershed Total Maximum Daily Load Working Group	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.1.11	Increase enforcement of water quality standards	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.11	Assess water quality with regard to temperature and suitability for bull trout in the Walla Walla Basin	Unknown			Oregon Department of Environmental Quality, Washington Department of Ecology, Walla Walla Basin Watershed Council, Walla Walla Watershed Total Maximum Daily Load Working Group	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.11	Minimize residential and summer home development in bull trout habitat	Unknown			Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	3	1.1.11	Identify the need for gauging stations	Unknown			U.S. Fish and Wildlife Service, U.S. Geological Survey	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.1.12	Evaluate water quality issues and implement remediation in Williams Lake and its associated tributaries	Unknown			Idaho Department of Environmental Quality, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.1.12	Identify cold groundwater sources	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Preservation activities, no restoration

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Bull Trout (Salvelinus confluentus)	3	1.1.12	Assess extent of chlorine and other chemical inputs into Mill Creek from City of Walla Walla sewer treatment plant and related irrigation use and their impacts to bull trout	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, City of Walla Walla, Washington	Work type not yet selected	Labor type not yet selected	Assessment costs only
Bull Trout (Salvelinus confluentus)	2	1.1.13	Provide literature on proper road management	Unknown			Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Provide information every 5 years
Bull Trout (Salvelinus confluentus)	3	1.1.13	Remedy point sources of thermal effluent	Unknown			Oregon Department of Environmental Quality, Washington Department of Ecology	Work type not yet selected	Labor type not yet selected	Walla Walla TMDL in progress
Bull Trout (Salvelinus confluentus)	1	1.1.14	Complete an assessment of <del>leave tree</del> prerequisites	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.1.14	Assess and minimize effects on bull trout from point and nonpoint source pollution	Unknown			Oregon Department of Environmental Quality, Washington Department of Ecology	Work type not yet selected	Labor type not yet selected	TMDL management plans have been developed and cost estimates associated with these activities will be developed.

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Bull Trout (Salvelinus confluentus)	2	1.1.15	Enforce and evaluate existing mining regulations	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	1.1.15	Identify site-specific threats that may be limiting bull trout in watersheds not already evaluated	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.1.16	Contribute to development of total maximum daily loads	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.1.17	Identify sources of mining contamination	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.1.18	Implement Comprehensive Environmental Response, Compensation, and Liability Act activities	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs associated with other cleanup activities

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Bull Trout (Salvelinus confluentus)	1	1.1.2	Assess sediment production from roads and potential sources in areas that have not been evaluated and implement actions to reduce sediment production if appropriate.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Transportation, Oregon Department of Forestry, Idaho Department of Environmental Quality, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	1.1.2	Implement Divide Creek restoration actions	Unknown			U.S. Department of Transportation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.1.2	Stabilize roads, crossings, and other sources of sediment delivery	Unknown				Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.1.2	Reduce general sediment production	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, U.S. Bureau of Land Management, U.S. Federal Highway Administration, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs

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Bull Trout (Salvelinus confluentus)	1	1.1.2	Reduce general sediment sources	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.1.2	Address forest road maintenance and areas with high sediment loading	Unknown			Idaho Department of Lands, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	1.1.2	Monitor sediment loading in current and potential bull trout habitat	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.2	Reduce sediment inputs.	Unknown			Washington Department of Natural Resources, Irrigation Districts, Washington Department of Ecology, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.1.2	Control agricultural and sewage effluent.	Unknown			Oregon Department of Agriculture, Oregon Department of Environmental Quality, Soil and Water Conservation Districts, U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing and changes with landowner and new development
Bull Trout (Salvelinus confluentus)	2	1.1.2	Assess effects on bull trout from nonpoint source pollution.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Transportation, Idaho Department of Fish and Game, Oregon Department of Environmental Quality, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Implement the Water Quality Management Plan for the Imnaha River subbasin. Development of the Water Quality Management Plan was scheduled to have begun in 2001.
Bull Trout (Salvelinus confluentus)	2	1.1.2	Assess water quality in Odell Lake	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Environmental Quality, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	May be completed as part of TMDL process for pH and algae. USFS collected water quality data in 2001.
Bull Trout (Salvelinus confluentus)	2	1.1.2	Upgrade problem roads	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, Montana Department of Transportation, Plum Creek Timber Company, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs

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Bull Trout (Salvelinus confluentus)	2	1.1.2	Improve water quality	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.1.2	Assess effects on bull trout from nonpoint source pollution	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon Department of Transportation, Boise Cascade Corporation, Inc., U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Implement the water quality management plan for the Upper Grande Ronde, Wallowa and Lower Grande Ronde watersheds
Bull Trout (Salvelinus confluentus)	2	1.1.2	Reduce sediment from roads and trails in the Iron Creek and Timber Creek watersheds	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.2	Investigate options to reduce effects of the County road in the Umatilla River and tributaries from Meacham Creek to the forks	Unknown			Umatilla County, Oregon	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.2	Investigate effects of sediment and potential toxic materials from Deadwood Mine on the Deadwood River and bull trout.	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.2	Assess turbidity from operation of Blue River project for impacts on bull trout	Unknown			U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.1.3	Develop and implement a management strategy to reduce sediment levels in bull trout spawning and rearing habitat in the Wet Creek watershed	Unknown			Idaho Department of Environmental Quality, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing



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Bull Trout (Salvelinus confluentus)	1	1.1.3	Assess development.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Benton County, Oregon, Yakima County, Washington, Kittitas County, Washington	Work type not yet selected	Labor type not yet selected	Ongoing. Coordinate with 6.1.1
Bull Trout (Salvelinus confluentus)	2	1.1.3	Conduct a trail assessment in the Sheep and Granite creek watersheds.	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Implement maintenance and repair as necessary.
Bull Trout (Salvelinus confluentus)	2	1.1.3	Upgrade problem roads	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, U.S. Department of Transportation, National Park Service, U.S. Bureau of Indian Affairs	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	2	1.1.3	Reduce general sediment sources	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.3	Identify areas of excess fine sediment delivery due to trail use and implement actions to reduce or eliminate fine sediment delivery	Unknown			Idaho Department of Lands, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	2	1.1.3	Clean up mine waste	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Watershed Advisory Groups, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	1.1.3	Assess and mitigate effects of nonpoint source pollution.	Unknown			Oregon Department of Agriculture, Oregon Department of Forestry, Oregon Department of Environmental Quality, Soil and Water Conservation Districts, U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	ODEQ lists streams that are water quality limited and there is a plan for ag sources
Bull Trout (Salvelinus confluentus)	2	1.1.3	Gauge sediment from roads	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.1.3	Assess sediment inputs in the Umatilla Core Area	Unknown			Umatilla County, Oregon, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs included in ongoing watershed assessments

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Bull Trout (Salvelinus confluentus)	2	1.1.3	Continue to conduct implementation and effectiveness monitoring of projects designed to reduce sediment delivery to streams	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, U.S. Bureau of Land Management, U.S. Federal Highway Administration, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	2	1.1.3	Assess mine sites for potential negative effects on bull trout and bull trout habitats and rehabilitate sites determined to be problems.	Unknown			Idaho Department of Environmental Quality, Oregon Department of Environmental Quality, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation of sites.
Bull Trout (Salvelinus confluentus)	3	1.1.3	Assess and mitigate effects on bull trout from non-point source pollution	Unknown			Oregon Department of Agriculture, Watershed councils, Oregon Department of Environmental Quality, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Covered under TMDL and SB1010 plans
Bull Trout (Salvelinus confluentus)	3	1.1.3	Identify and eliminate industrial, agricultural, residential, and sewage effluent runoff (nutrients and chemicals) that impact bull trout in the mainstem Middle Fork Willamette River and the lower mainstem McKenzie River	Unknown			Oregon Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	Much of this task will be covered in the total maximum daily load (TMDL) process

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Bull Trout (Salvelinus confluentus)	1	1.1.4	Support habitat protection and monitoring in British Columbia	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Watershed Advisory Groups, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.1.4	Modify roads and trails to allow natural drainage patterns	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.4	Develop and implement a basin-wide Total Maximum Daily Load program.	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing Clean Water Act activity
Bull Trout (Salvelinus confluentus)	2	1.1.4	Improve maintenance along transportation corridors	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.1.4	Upgrade problem roads	Unknown			Idaho Department of Lands, Idaho Transportation Department, Shoshone County, Idaho, Kootenai County, Idaho, Benewah County, Idaho, Latah County, Idaho, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.1.4	Reduce mining runoff.	Unknown			Oregon Department of Agriculture, Oregon Department of Environmental Quality, Soil and Water Conservation Districts, U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	ODEQ lists streams that are water quality limited due to mining effluent
Bull Trout (Salvelinus confluentus)	2	1.1.4	Increase monitoring of sediment inputs on the Malheur National Forest	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.1.4	Increase use of State Best Management Practices and rules guiding land management on State and private lands	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Office of Species Conservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	1.1.4	Assess and attempt to mitigate negative effects of nonpoint sources of pollution on bull trout and bull trout habitats.	Unknown			Oregon Department of Agriculture, Idaho Department of Environmental Quality, Oregon Department of Environmental Quality, U.S. Environmental Protection Agency, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	1.1.4	Assess sediment sources/inputs in the Walla Walla Core Area	Unknown			Oregon Department of Environmental Quality, Columbia County, Washington, Walla Walla County, Washington, Walla Walla Basin Watershed Council, Boise Cascade Corporation, Inc., U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.4	Investigate effects on bull trout of thermal effluent discharged into the McKenzie River	Unknown			Weyerhaeuser Corporation, Inc.	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.1.5	Conduct limiting factors analysis for impact of roads	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.5	Support habitat protection and monitoring in Alberta	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.5	Restore Boundary Creek	Unknown			County governments, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.1.5	Decrease the potential of, and improve quick response capability for, dealing with potential hazardous material spills	Unknown			County governments, Idaho Department of Environmental Quality, Idaho Transportation Department, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.1.5	Review Best Management Practices/laws/rules/ standards for land management practices when those practices provide inadequate to protection to bull trout on State and private lands	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Office of Species Conservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	3	1.1.5	Assess the presence of residual concentrations of fish toxicants in sediments.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.5	Determine feasibility of trail relocation on USFS and BLM managed lands in the Walla Walla Basin	Unknown			U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.5	Assess impacts from trail systems	Unknown			U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.1.6	Develop a long-term monitoring program to address acid mine drainage, heavy metals, and other pollutants delivered into streams, wetlands, ponds, springs and groundwater associated with active, inactive and orphaned mines	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Mining Companies in the Salmon River Area, Idaho, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.6	Conduct Fisher River assessment	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing management and administrative costs
Bull Trout (Salvelinus confluentus)	2	1.1.6	Address road issues in the Touchet subbasin	Unknown			Washington Department of Transportation, Columbia County, Washington, Walla Walla County, Washington, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	1.1.6	Restore areas degraded by historic timber harvest	Unknown			Idaho Department of Lands, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See associated Task 1.5.3
Bull Trout (Salvelinus confluentus)	2	1.1.6	Monitor baseline instream habitat and watershed conditions	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	1.1.6	Develop sediment monitoring plan	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.1.7	Monitor Wigwam River timber harvest	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	1.1.7	Clean up mine waste at active, inactive, and orphan sites	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Mining Companies in the Salmon River Area, Idaho, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	2	1.1.7	Identify problem mine sites and remediate tailings, ponds, and other associated waste	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.1.7	Assess nutrient input from forestry and agriculture	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.7	Take corrective action and/or provide programs to address sediment inputs and waste dumping in storm drains in the mainstem Walla Walla River	Unknown			City governments, Resource conservation districts, Oregon Department of Environmental Quality, Washington Department of Ecology, Columbia County, Washington, Walla Walla County, Washington	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.7	Identify water quality problems	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies

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Bull Trout (Salvelinus confluentus)	1	1.1.8	Identify sources of water temperature increases	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some cost overlap with stream habitat surveys
Bull Trout (Salvelinus confluentus)	2	1.1.8	Continue to conduct evaluations to determine if a release of toxic material from the Thompson Mine tailings pond into the mainstem Salmon River and tributaries is possible	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Mining Companies in the Salmon River Area, Idaho, U.S. Bureau of Land Management, U.S. Geological Survey, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.1.8	Assess and mitigate point and nonpoint thermal pollution	Unknown			Idaho Department of Environmental Quality, Idaho Soil Conservation Commission, U.S. Environmental Protection Agency, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.1.8	Assess/minimize threats from Skookumchuck pulp mill landfill closure	Unknown			British Columbia Ministry of Water, Land, and Air Protection, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	1.1.8	Implement measures to reduce nutrient input	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.8	Improve storm runoff system in Milton-Freewater	Unknown			Oregon Department of Environmental Quality, City of Milton-Freewater, Oregon	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.1.9	Assess and mitigate nonpoint thermal pollution	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	CWA required costs
Bull Trout (Salvelinus confluentus)	2	1.1.9	Implement water quality regulations	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.1.9	Reduce nutrient input	Unknown			Idaho Department of Environmental Quality, Plum Creek Timber Company, Nez Perce Tribe, Idaho Soil Conservation Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	1.1.9	Investigate source of increased phosphate levels in South Fork Walla Walla River on BLM land	Unknown			U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.1.9	Assess grazing impacts	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.2.1	Assess feasibility of restoring fish passage at dams to reconnect fragmented bull trout populations Upper Willamette River core area	Unknown			Oregon Department of Fish and Wildlife, Eugene Water and Electric Board, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Proposed biological assessment/ biological opinion study of passage feasibility for Carmen-Smith
Bull Trout (Salvelinus confluentus)	1	1.2.1	Assess whether tributary diversions act as migration barriers and restore passage where necessary	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Install appropriate fish passage structures around diversions or remove related migration barriers

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Bull Trout (Salvelinus confluentus)	1	1.2.1	Identify and implement opportunities for two-way passage at major dams	Unknown			Oregon Department of Fish and Wildlife, Irrigation Districts, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Cost is for proposed study only; implementation costs unknown.
Bull Trout (Salvelinus confluentus)	1	1.2.1	Eliminate entrainment in diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Water Resources, Nevada Division of Forestry, Montana Department of Natural Resources and Conservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.1	Identify culverts and other man-made barriers inhibiting fish passage	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, Idaho Transportation Department, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Increase ongoing surveys
Bull Trout (Salvelinus confluentus)	1	1.2.1	Identify water diversion structures and ditches affecting bull trout and implement actions to reduce negative effects.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, Irrigation Districts, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for identification of sites and design.
Bull Trout (Salvelinus confluentus)	1	1.2.1	Provide fish passage at Swift (Number 1 and 2) and Yale dams	Unknown			PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.2.1	Identify barriers to fish passage	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.2.1	Inventory culverts to identify those inhibiting fish passage, and develop program to improve fish passage.	Unknown			Idaho Department of Fish and Game, Idaho Transportation Department, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.1	Eliminate entrainment in diversions	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Covered partially under existing programs.
Bull Trout (Salvelinus confluentus)	1	1.2.1	Evaluate bull trout entrainment at water diversions	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.1	Assess the feasibility of installing appropriate fish passage structures around diversions or removing related migration barriers.	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	If necessary, install appropriate fish passage structures around diversions or remove related migration barriers. Actions 1.2.1 and 1.2.2 should be considered simultaneously.
Bull Trout (Salvelinus confluentus)	1	1.2.1	Provide upstream fish passage at the Badger Creek water diversion	Unknown			Diversion Operators in Little Lost River Area, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for construction to provide passage in perpetuity.

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Bull Trout (Salvelinus confluentus)	1	1.2.1	Screen water diversions and irrigation ditches.	Unknown			Oregon Department of Fish and Wildlife, Irrigation Districts, Soil and Water Conservation Districts, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	New and update existing screens
Bull Trout (Salvelinus confluentus)	1	1.2.1	Eliminate entrainment in diversions	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.1	Screen diversions.	Unknown			Washington Department of Fish and Wildlife, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.1	Investigate methods to improve instream flows	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	1.2.1	Reconnect floodplains.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.1	Inventory screen needs in the Walla Walla Core Area in Washington	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.1	Provide fish passage on Cedar Creek	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, City of Lone, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.2.1	Screen water diversions and irrigation ditches.	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	1	1.2.10	Eliminate unauthorized unpermitted bull trout losses due to instream structures and water diversions	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Office of Species Conservation, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Related to task 1.2.2, 1.2.4, 1.2.9
Bull Trout (Salvelinus confluentus)	1	1.2.10	Inventory diversions in the lower Little Lost River, evaluate entrainment and feasibility of eliminating or reducing entrainment, and implement appropriate actions	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for inventory and feasibility study.
Bull Trout (Salvelinus confluentus)	3	1.2.10	Remove passage barrier at Feed Canal/Cold Springs Diversion on the Umatilla River	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.2.11	Evaluate bull trout loss at the flood-control structure near Howe and implement tasks to reduce negative effects	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation and feasibility study.
Bull Trout (Salvelinus confluentus)	3	1.2.11	Investigate possible impacts to bull trout with downstream passage at Three-mile Dam	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.12	Review existing barrier lists in the Umatilla subbasin and determine which barriers affect or are likely to affect bull trout	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	Should be incorporated into assessment process
Bull Trout (Salvelinus confluentus)	3	1.2.12	Evaluate potential of Moonshine Creek to support bull trout and provide passage if habitat is suitable for bull trout	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation study.
Bull Trout (Salvelinus confluentus)	1	1.2.13	Evaluate barrier formed by debris, and perhaps a head-cut, on Bunting Canyon Creek and implement tasks to expand bull trout distribution upstream of the barrier	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation to develop restoration approach.
Bull Trout (Salvelinus confluentus)	3	1.2.13	Continue monitoring for passage barriers in the Walla Walla Core Area and identify necessary remedial actions as needed	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon State Police, Washington Department of Ecology, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	1.2.14	Monitor new ladder and screen modifications at Mojonner Dam	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.15	Implement long-term solution to fish mortality problems at the Mill Creek Diversion and monitor for effectiveness	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, City of Walla Walla, Washington, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.16	Implement Titus ditch/diversion project (screens and passage).	Unknown			Resource conservation districts, Washington Department of Fish and Wildlife, Washington Department of Ecology	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.17	Complete ongoing culvert and other transportation related assessments and implement solutions where barriers affect bull trout	Unknown			Washington Department of Natural Resources, Oregon Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.18	Support City of Pendleton's effort to convert from springs at Squaw Creek to Umatilla River at Pendleton for its water supply	Unknown			Oregon Department of Fish and Wildlife, Oregon Water Resources Department, Confederated Tribes of the Umatilla Indian Reservation, City of Pendleton, Oregon, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.2.19	Investigate potential to increase instream flows	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Irrigation Districts, Oregon Water Resources Department, Confederated Tribes of the Umatilla Indian Reservation, Walla Walla Basin Watershed Council, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.2	Correct irrigation passage barriers.	Unknown			Resource conservation districts, Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.2	Diversion operations.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Irrigation Districts, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.2	Provide fish passage around diversions	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	1.2.2	Install appropriate fish passage structures around diversions and/or remove related migration barriers.	Unknown			Oregon Department of Fish and Wildlife, Soil and Water Conservation Districts, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.2	Assess feasibility of providing minimum stream flows between the Badger Creek diversion and the Little Lost River	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Diversion Operators in Little Lost River Area, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for feasibility study.
Bull Trout (Salvelinus confluentus)	1	1.2.2	Remedy fish passage barriers	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.2.2	Provide fish passage at Albeni Falls Dam	Unknown			U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.2	Provide fish passage around diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Water Resources, Nevada Division of Forestry, Montana Department of Natural Resources and Conservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	1.2.2	Eliminate known culvert and other passage barriers (including those identified by task 1.2.1)	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, Idaho Transportation Department, Plum Creek Timber Company, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost depends on results of Task 1.2.1
Bull Trout (Salvelinus confluentus)	1	1.2.2	Provide fish passage at Condit Dam	Unknown			PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.2	Provide passage at dams	Unknown			Odell Lake Bull Trout Recovery Unit Team, Union Pacific Railroad	Work type not yet selected	Labor type not yet selected	Cost are for evaluation only. Cost for action unknown at this time.
Bull Trout (Salvelinus confluentus)	1	1.2.2	Prioritize and then implement fish passage at dams to reconnect fragmented bull trout populations in the Upper Willamette River core area	Unknown			Oregon Department of Fish and Wildlife, Eugene Water and Electric Board, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Cost depends on details of proposal; any major structural work probably done as part of post-2008 project relicensing
Bull Trout (Salvelinus confluentus)	1	1.2.2	Provide passage at transportation/road-related barriers identified in completed and ongoing surveys	Unknown			Oregon Department of Transportation, Malheur County, Oregon, Grant County, Oregon, Harney County, Oregon, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing. Cost are for completion of surveys; project costs unknown at this time

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Bull Trout (Salvelinus confluentus)	1	1.2.2	Provide fish passage at water diversions known to be fish passage barriers.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, Irrigation Districts, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.2	Eliminate bull trout entrainment at water diversions	Unknown			Idaho Department of Fish and Game, Shoshone-Bannock Tribe, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing, Screening is part of Idaho State Law
Bull Trout (Salvelinus confluentus)	2	1.2.2	Implement measures to improve instream flows	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	1.2.2	Assess whether tributary diversions and irrigation ditches are screened appropriately and remediate where necessary	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Take action based on assessment
Bull Trout (Salvelinus confluentus)	2	1.2.2	Screen pumps in the Walla Walla subbasin in Oregon	Unknown			Oregon Department of Fish and Wildlife, Oregon Water Resources Department	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.2	Assess the feasibility of installing appropriate fish screening structures in the Wallowa Valley Improvement Canal.	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Take action based on assessment. The provisions of passage and need for screening in the canal are complimentary. Thus, actions 1.2.1 and 1.2.2 should be considered simultaneously.
Bull Trout (Salvelinus confluentus)	3	1.2.2	Replace the culvert identified as a fish barrier in Second Fork Squaw Creek.	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.2.2	Restore connectivity and opportunities for migration by securing instream flows and/or water rights in Squaw Creek, Lake Creek, middle Deschutes, and lower Crooked.	Unknown			Oregon Department of Fish and Wildlife, Irrigation Districts, Oregon Water Resources Department, Private Irrigators in Central Oregon, U.S. Bureau of Reclamation	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	2	1.2.20	Investigate the ground-water surface water connection in the Walla Walla Basin	Unknown			Washington Department of Ecology, Oregon Water Resources Department, Walla Walla Basin Watershed Council, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Costs included as part of task #1.2.21
Bull Trout (Salvelinus confluentus)	2	1.2.21	Improve instream flows for salmonids in the Walla Walla Core Area	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	1.2.22	Continue bull trout salvage program until long-term solution is found.	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.3	Evaluate feasibility of reconnecting Williams Creek to the Little Lost River by providing adequate stream flows	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Diversion Operators in Little Lost River Area, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for feasibility study.
Bull Trout (Salvelinus confluentus)	1	1.2.3	Provide fish passage at Box Canyon Dam	Unknown			Pend Oreille Public Utilities District, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	May not start until 2005 or later
Bull Trout (Salvelinus confluentus)	1	1.2.3	Eliminate culvert barriers	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, Idaho Transportation Department, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	1.2.3	Monitor all road crossings	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.3	Restore connectivity and opportunities for migration.	Unknown			Oregon Department of Fish and Wildlife, Wallowa Valley Irrigation District, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Pending the assessments of 1.2.1 and 1.2.2.
Bull Trout (Salvelinus confluentus)	1	1.2.3	Install appropriate fish screens and passage structures around diversions and/or remove related migration barriers	Unknown			Oregon Department of Fish and Wildlife, Burns Paiute Tribe, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Discussions ongoing. Cost estimate is for design only.; project costs unknown at this time
Bull Trout (Salvelinus confluentus)	1	1.2.3	Identify dewatered areas where insufficient stream flow creates passage barriers, and develop and implement actions to provide fish passage.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, Irrigation Districts, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Bureau of Reclamation, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for identification of sites and development of actions.

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Bull Trout (Salvelinus confluentus)	1	1.2.3	Identify and implement actions needed to prevent the loss of bull trout at irrigation diversions and improve fish passage.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Diversion Operators in SW Idaho, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.3	Document, enumerate, and evaluate entrainment at Cougar Dam as a factor influencing bull trout status in the South Fork McKenzie River	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.3	Inventory water diversions and other manmade instream structures identify those indirectly or directly inhibiting fish passage	Unknown			Idaho Department of Fish and Game, Shoshone-Bannock Tribe, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Estimate, Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.3	Screen diversions and irrigation ditches.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.2.3	Irrigation withdrawal.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Benton County, Oregon, Yakama Nation, Yakima County, Washington, Kittitas County, Washington, U.S. Bureau of Reclamation, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.3	Evaluate, and where necessary reduce, impacts of hatchery weirs on bull trout	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	If significant impacts are found they should be addressed
Bull Trout (Salvelinus confluentus)	2	1.2.3	Evaluate passage options of bull trout at Speelyai hatchery diversion	Unknown			Washington Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.3	Secure instream flows.	Unknown			Oregon Department of Fish and Wildlife, Irrigation Districts, Oregon Water Resources Department, Soil and Water Conservation Districts, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.2.3	Eliminate culvert barriers	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, U.S. Bureau of Reclamation, U.S. Department of Transportation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.2.3	Restore passage at Pelton/Round Butte, include monitoring strategy. PGE/WSPE proposal for experimental passage currently being drafted. If approved it would be implemented in 2006.	Unknown			Portland General Electric Company, Warm Springs Power Enterprises	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	1.2.3	Consider providing passage around natural barriers	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task 1.3.1
Bull Trout (Salvelinus confluentus)	3	1.2.3	Investigate options for screening on Smith Ditch with Walla Walla River Irrigation District	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Walla Walla River Irrigation District	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.2.3	Monitor success of barrier removal activities	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies

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Bull Trout (Salvelinus confluentus)	1	1.2.4	Investigate and implement methods to provide two-way fish passage at Oxbow Dam, Thief Valley Dam, Mason Dam, and Wolf Creek Dam.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Power Company, U.S. Bureau of Reclamation, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Cost estimate for investigations.
Bull Trout (Salvelinus confluentus)	1	1.2.4	Provide fish protection at water diversions and associated structures	Unknown			Oregon Department of Fish and Wildlife, Eugene Water and Electric Board, U.S. Federal Energy Regulatory Commission, Private landowners	Work type not yet selected	Labor type not yet selected	Fish screen, tailrace barriers, ladders
Bull Trout (Salvelinus confluentus)	1	1.2.4	Analyze culvert survey data collected by the Forest Service and develop plan to address culverts found to inhibit fish passage	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.4	Eliminate culvert barriers	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	1.2.4	Provide fish passage around diversions and other instream manmade structures	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Shoshone-Bannock Tribe, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing, Related to task 1.2.9, 1.2.10
Bull Trout (Salvelinus confluentus)	1	1.2.4	Improve instream flows	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.4	Improve instream flows	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Water Resource Board, Montana Department of Natural Resources and Conservation	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.4	Investigate and implement screens at Bennington Lake appropriate to handle flood flows to prevent bull trout entrainment in Bennington Lake during floods	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.2.4	Assess whether hatchery weirs are impacting bull trout.	Unknown			Oregon Department of Fish and Wildlife, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	If significant impacts are found they should be addressed.
Bull Trout (Salvelinus confluentus)	2	1.2.4	Provide fish passage at tributary dams and barriers	Unknown			Pend Oreille Public Utilities District, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.4	Assess impacts from proposed Lake Wenatchee Dam.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Chelan County, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.4	Reduce entrainment	Unknown			PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	1.2.4	Evaluate fish passage at diversions on Lake Fork and Fisher Creek and implement actions to prevent fish loss and improve passage, if necessary.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Diversion Operators in SW Idaho, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.2.4	Restore connectivity and opportunities for migration by improving instream flows and/or water rights	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Water Resources, Burns Paiute Tribe	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	1.2.4	Eliminate entrainment risks	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies



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Bull Trout (Salvelinus confluentus)	3	1.2.4	Restore passage at Opal Springs Dam, including monitoring strategy.	Unknown			Deschutes Valley Water District, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	1.2.4	Ensure that hatchery intakes are not impacting bull trout	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Insure that intakes are screened properly
Bull Trout (Salvelinus confluentus)	1	1.2.5	Conduct limiting factors analysis for culvert problems	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Yakama Nation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.5	Correct manmade barriers that impede bull trout access to suitable habitat	Ongoing Current	FY 2008		Oregon Department of Transportation, U.S. Forest Service	Management: Habitat Maintenance and Manipulation	Contract	OFWO provide funds toward install new fish passable culvert under Road 21 at Indigo Springs on upper MF Willamette R. This will help re-establish bull trout in MF Willamette R.
Bull Trout (Salvelinus confluentus)	1	1.2.5	Investigate adequacy of Bennington ladder for upstream migration	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Cost share with 1.2.5

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Bull Trout (Salvelinus confluentus)	1	1.2.5	Inventory and assess road crossings to identify fish passage barriers and implement actions to provide passage where appropriate.	Unknown			Oregon Department of Transportation, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing. Coordinate with task 1.1.2.
Bull Trout (Salvelinus confluentus)	1	1.2.5	Assess whether road and trail crossings are acting as barriers to bull trout movement and provide passage wherever feasible	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon Department of Transportation, Boise Cascade Corporation, Inc., U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Implement solutions to address those that impact bull trout
Bull Trout (Salvelinus confluentus)	1	1.2.5	Conduct survey of culverts on Bureau of Land Management and private lands and develop plan to address culverts found to inhibit fish passage	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	Cost estimate for survey and feasibility study.
Bull Trout (Salvelinus confluentus)	1	1.2.5	Inventory culverts and identify those inhibiting fish passage	Unknown			Idaho Department of Fish and Game, Idaho Transportation Department, U.S. Bureau of Land Management, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	1.2.5	Remove or replace culverts	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.5	Analyze watercourses for ability to pass bull trout	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.2.5	Assess whether hatchery intakes are impacting bull trout.	Unknown			Oregon Department of Fish and Wildlife, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Insure that intakes are screened properly.
Bull Trout (Salvelinus confluentus)	1	1.2.6	Identify and evaluate opportunities for improving passage through dams to increase survival rates	Unknown			Eugene Water and Electric Board, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	EWEB proposed study of entrainment/ mortality for Trail Bridge
Bull Trout (Salvelinus confluentus)	1	1.2.6	Provide fish passage at water diversions	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.2.6	Conduct limiting factors analysis for instream flow problems	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Yakama Nation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.6	Establish connectivity to Walla Walla mainstem and prevent stranding (Garrison/Yellowhawk/Mill Creek channel complex)	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.6	Eliminate culvert barriers	Unknown			Idaho Transportation Department, U.S. Bureau of Land Management, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	1	1.2.6	Provide fish passage at road crossings that have been identified as fish passage barriers.	Unknown			Oregon Department of Transportation, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.

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Bull Trout (Salvelinus confluentus)	2	1.2.6	Evaluate fish passage at specific culverts on Timber Creek (U.S. Forest Service Road #105) and Redrock Creek (Forest Service Road #460) and modify or replace culverts, as necessary, to provide or improve fish passage	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation. Implementation cost dependent on specific action taken.
Bull Trout (Salvelinus confluentus)	2	1.2.6	After elimination of brook trout in the LeClerc Creek watershed, reposition or replace presently impassable culvert on U.S. Forest Service Road 1935080 crossing	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.2.6	Restore passage to upper Squaw Creek, include a monitoring strategy.	Unknown			Oregon Department of Fish and Wildlife, Irrigation Districts, Private Irrigators in Central Oregon	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	1.2.6	Salvage stranded bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.2.6	Salvage stranded bull trout.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.7	Eliminate entrainment in diversions	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.2.7	After nonnative fish species are eliminated, remove historic water diversion on the upper West Branch of the LeClerc Creek system	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.7	Investigate and implement relocation of diversions, and irrigation efficiency improvements to benefit the bull trout with increased instream flows and decreased barriers	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.7	Evaluate fish passage at specific culverts on Jackson Creek and Hawley Creek (U.S. Forest Service Road #104 on both streams) and modify or replace culverts, as necessary, to provide or improve fish passage	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation. Implementation cost dependent on specific action taken.
Bull Trout (Salvelinus confluentus)	2	1.2.7	Provide fish passage at Merwin Dam	Unknown			PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.7	Improve survival below the regulating outlet at Hills Creek Dam by addressing inadequate plunge pool at low or moderate flows	Unknown			U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	The cost will depend on whether operational or structural solution is implemented
Bull Trout (Salvelinus confluentus)	2	1.2.7	Evaluate natural & semi-permanent fish passage barriers and determine if removal may be needed, then implement if necessary	Unknown			Idaho Department of Fish and Game, Idaho Transportation Department, U.S. Bureau of Land Management, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	3	1.2.7	Secure appropriate instream flows	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.8	Monitor the effects of diversions and withdrawals on stream temperature and bull trout migration, and modify as necessary	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Modify the management of diversions and withdrawals as necessary for bull trout
Bull Trout (Salvelinus confluentus)	1	1.2.8	Implement repairs to Hofer Dam ladder	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.8	Monitor actions to restore connectivity of streams	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Shoshone-Bannock Tribe, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.2.8	Reduce entrainment	Unknown			Pend Oreille Public Utilities District, Seattle City Light, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.8	Evaluate fish passage at two culverts on the upper Little Lost River (U.S. Forest Service Road #101) and modify or replace the culverts, as necessary, to provide or improve fish passage	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation. Implementation cost dependent on specific action taken.

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Bull Trout (Salvelinus confluentus)	2	1.2.8	Assess manmade barriers	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.9	Improve passage at Dayton Steelhead Acclimation Pond Dam for bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries)	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.2.9	Improve instream flows	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Shoshone-Bannock Tribe, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing, related to task 1.2.4
Bull Trout (Salvelinus confluentus)	1	1.2.9	Provide fish passage at Boundary Dam	Unknown			Seattle City Light, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.2.9	Remove artificial barrier on lower Camp Creek	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation. Implementation cost dependent on specific action taken.
Bull Trout (Salvelinus confluentus)	1	1.3.1	Conduct watershed analyses	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies



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Bull Trout (Salvelinus confluentus)	1	1.3.1	Restore riparian zones associated with bull trout habitat.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.1	Restore riparian zones associated with bull trout habitat.	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Boise Cascade Corporation, Inc., Grand Ronde Model Watershed Program, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.1	Identify riparian areas where livestock grazing is impacting bull trout habitats	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.3.1	Conduct watershed assessments in the North Fork, South Fork, and Middle/Lower Clearwater River, and Lochsa Core Areas	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Plum Creek Timber Company, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	1	1.3.1	Maintain current conservation practices on lower Rush Creek	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.3.1	Evaluate effects of livestock grazing on bull trout egg incubation and on spawning and rearing habitat and adjust grazing strategy as appropriate	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.1	Identify areas in and along streams for restoration	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.1	Livestock grazing.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Includes 2 years for plan development and 8 years implementation.
Bull Trout (Salvelinus confluentus)	2	1.3.1	Repair roads	Unknown			Washington Department of Natural Resources, Pend Oreille County, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.1	Restore riparian habitat	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, most covered under existing programs. Trapper Creek covered under 1.3.2.

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Bull Trout (Salvelinus confluentus)	2	1.3.1	Revegetate to restore shade and canopy, riparian cover, and native vegetation.	Unknown			Oregon Department of Agriculture, Oregon Department of Environmental Quality, Confederated Tribes of the Warm Springs Reservation, Soil and Water Conservation Districts, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.1	Identify areas where livestock grazing has negatively affected riparian and aquatic habitats, and implement actions to restore and improve stream and riparian habitat.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for identifying areas affected by grazing.
Bull Trout (Salvelinus confluentus)	2	1.3.1	Conduct watershed problem assessments	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Bonneville Power Administration, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing management and administrative costs
Bull Trout (Salvelinus confluentus)	2	1.3.1	Restore shade and canopy, riparian cover, and native vegetation in all bull trout spawning areas	Unknown			Watershed councils, Burns Paiute Tribe, U.S. Bureau of Land Management, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Efforts currently underway on public and tribal lands
Bull Trout (Salvelinus confluentus)	2	1.3.1	Identify opportunities and incentives to revegetate areas in riparian zones	Unknown			U.S. Forest Service, U.S. Army Corps of Engineers, Private landowners	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.3.1	Restore shade and canopy cover provided by riparian vegetation along select stream reaches where riparian habitats have been degraded.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	2	1.3.1	Conduct watershed problem assessments	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing management and administrative costs
Bull Trout (Salvelinus confluentus)	3	1.3.1	Minimize further shoreline and floodplain development.	Unknown			Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.3.1	Revegetate to restore shade and canopy, riparian cover, and native vegetation along mainstem lower Deschutes River, Crooked River and Squaw Creek.	Unknown			Oregon Department of Environmental Quality, Deschutes Resources Conservancy, U.S. Bureau of Land Management, U.S. Bureau of Indian Affairs, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Covered under existing programs

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Bull Trout (Salvelinus confluentus)	2	1.3.10	Identify areas in which secondary roads have been constructed in floodplain and implement restoration actions	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.10	Ensure enforcement of mineral prospecting and placer mining regulations.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	1.3.10	Compensate for transportation corridor encroachment on streams	Unknown			Idaho Transportation Department, U.S. Federal Highway Administration	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	2	1.3.10	Protect roadless condition	Unknown			Coeur d'Alene Tribe, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.3.10	Improve instream habitat between Division and Bennington Diversions in Mill Creek and in the Touchet River above Dayton and downstream to Waitsburg	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.11	Restore streams that are partially or completely dewatered	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Related to task 1.2.10
Bull Trout (Salvelinus confluentus)	2	1.3.11	Increase instream habitat by restoring recruitment of large woody material or other means	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	1.3.11	Provide information about stream and riparian function	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, U.S. Federal Emergency Management Agency, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	1.3.11	Maintain unroaded portions of bull trout watersheds in current roadless condition.	Unknown			Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	1.3.11	Reduce campsite impacts	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, Nez Perce Tribe, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.12	Reduce grazing impacts	Unknown			Resource conservation districts, Union Pacific Railroad, Washington State University Cooperative Extension Service, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Costs Unknown; some costs associated with implementation of Federal grazing management programs
Bull Trout (Salvelinus confluentus)	2	1.3.12	Address access road impacts.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities

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Bull Trout (Salvelinus confluentus)	2	1.3.12	Provide for incentives to restore proper stream function	Unknown			Soil and Water Conservation Districts, Shoshone County, Idaho, Kootenai County, Idaho, Benewah County, Idaho, Latah County, Idaho, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.3.12	Prepare a management plan for the maintenance and reconstruction of Highway 95 adjacent to the Little Salmon River	Unknown			Idaho Transportation Department, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	1.3.12	Minimize potential stream channel degradation from flood control and response actions	Unknown			County governments, Idaho Department of Environmental Quality, Idaho Bureau of Disaster Services, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	1.3.13	Evaluate overwintering habitat in the mainstem rivers	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.13	Evaluate enforcement of existing livestock grazing regulations to reduce unauthorized livestock use on the National Forest in North Fork Meacham Creek	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.3.13	Conduct stream surveys	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.13	Conduct watershed assessments in areas where this has not yet been completed in the Salmon River Recovery Unit	Unknown			U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	2	1.3.13	Monitor mining activities.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	1.3.14	Implement restoration of overwintering habitat in the mainstem rivers, if needed	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Total cost depends on restoration needs
Bull Trout (Salvelinus confluentus)	1	1.3.14	Explore solutions for improving migratory habitat in the Meacham Creek subbasin with Union Pacific Railroad	Unknown			Oregon Department of Fish and Wildlife, Union Pacific Railroad, Confederated Tribes of the Umatilla Indian Reservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	1.3.14	Implement buyout programs	Unknown			Shoshone County, Idaho, Kootenai County, Idaho, Benewah County, Idaho, Latah County, Idaho, U.S. Fish and Wildlife Service, U.S. Federal Emergency Management Agency	Work type not yet selected	Labor type not yet selected	Establish a bank of funds for these types of activities
Bull Trout (Salvelinus confluentus)	2	1.3.14	Ensure that bull trout are considered in all planning phases of new gold mining operations.	Unknown			U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	1.3.15	Manage beaver dams	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.3.15	Explore long-term solutions to restoration of flows at Nursery Bridge	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.3.15	Implement and monitor stream nutrient enhancement projects.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.16	Evaluate overwintering habitat	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Possible graduate student project

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Bull Trout (Salvelinus confluentus)	2	1.3.16	Develop a team of biologists and hydrologists to determine appropriate instream flows within reaches of the Walla Walla Core Area	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Umatilla-Walla Walla Bull Trout Recovery Unit Team, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Costs are part of implementing task #1.2.20, 1.2.21, and 1.2.22
Bull Trout (Salvelinus confluentus)	2	1.3.16	Quantify grazing impacts.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.3.16	Implement stream gauging programs in Washington and Oregon	Unknown			Washington Department of Ecology, Oregon Water Resources Department, Bonneville Power Administration, U.S. Geological Survey	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.17	Improve overwintering habitat	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.3.17	Develop and implement livestock grazing plans.	Unknown			Resource conservation districts, Washington Department of Natural Resources, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities

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Bull Trout (Salvelinus confluentus)	2	1.3.18	Improve instream habitat	Unknown			Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	1.3.18	Exclude grazing from sensitive habitat areas.	Unknown			Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	1.3.19	Identify and mitigate habitat impacts from highways and railroads.	Unknown			Washington Department of Natural Resources, Washington Department of Ecology, Washington Department of Transportation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.2	Implement actions necessary to accelerate recovery of riparian vegetation and streambanks and reduce negative effects from grazing in identified problem areas	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	1	1.3.2	Evaluate enforcement of timber harvest regulations.	Unknown			Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	1.3.2	Maintain riparian zones associated with bull trout habitat.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	1.3.2	Restore stream channels	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost are for Phase I of Trapper Creek Project .

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Bull Trout (Salvelinus confluentus)	1	1.3.2	Revegetate denuded riparian areas	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.3.2	Protect and restore habitat in upper Rush and Pine creeks	Unknown			U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.2	Maintain riparian zones associated with bull trout habitat.	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Boise Cascade Corporation, Inc., Grand Ronde Model Watershed Program, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.2	Identify stream channel degradation	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Repeat in selected problem areas every 5th year, after year 5
Bull Trout (Salvelinus confluentus)	2	1.3.2	Develop and implement adaptive management plans for areas impacted by livestock grazing	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.3.2	Revegetate denuded riparian areas	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, U.S. Bureau of Indian Affairs	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.3.2	Develop road management strategy.	Unknown			Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	1.3.2	Relocate Mill Creek trailhead away from Mill Creek and rehabilitate the existing trailhead site	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.2	Reduce grazing impacts in all bull trout spawning areas	Unknown			Burns Paiute Tribe, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.2	Investigate opportunities for riparian restoration behind flood control dikes	Unknown			U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.2	Investigate and implement methods for restoring habitat conditions in the lower Middle Fork Payette River.	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for investigate of methods.
Bull Trout (Salvelinus confluentus)	2	1.3.2	Reduce degradation of aquatic and riparian habitats caused by livestock grazing.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing.

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Bull Trout (Salvelinus confluentus)	2	1.3.2	Reduce grazing impacts.	Unknown			Oregon Department of Agriculture, Confederated Tribes of the Warm Springs Reservation, Soil and Water Conservation Districts, U.S. Bureau of Land Management, Bonneville Power Administration, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.2	Revegetate denuded riparian areas	Unknown			Idaho Department of Lands, Idaho Transportation Department, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Increase ongoing restoration activities
Bull Trout (Salvelinus confluentus)	2	1.3.2	Revegetate denuded riparian areas	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	3	1.3.2	Reduce grazing impacts with current, proven technology, e.g., fencing, changes in timing and use of riparian pastures, off-site watering, and salting along the mainstem lower Deschutes River, Crooked River, and Squaw Creek.	Unknown			Oregon Department of Environmental Quality, Deschutes Resources Conservancy, U.S. Bureau of Land Management, U.S. Bureau of Indian Affairs, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	2	1.3.20	Coordinate with grazing interests to minimize grazing disturbance.	Unknown			Resource conservation districts, Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.3.21	Reduce sediment loading to streams.	Unknown			Washington Department of Natural Resources, Okanogan County, Washington, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.3.22	Identify and, where feasible, correct man-made barriers to fish passage in foraging and refugia habitats.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.3.23	Restore and protect habitat that is impacted by recreational campgrounds.	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.3.3	Repair roads and culverts.	Unknown			Washington Department of Natural Resources, Yakama Nation, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.3	Repair streambanks	Unknown			Idaho Department of Environmental Quality, Soil and Water Conservation Districts, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.3.3	Collaborate with the Yakama Nation	Unknown			Yakama Nation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.3	Improve grazing practices	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.3.3	Restore stream reaches degraded by dredge and placer mining	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.



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Bull Trout (Salvelinus confluentus)	1	1.3.3	Evaluate the effects of channelization on the middle portion of the Little Lost River (i.e., the reach between the confluences of Iron and Summit Creeks) and develop and implement a strategy to restore a natural stream channel	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Cost estimate for feasibility study.
Bull Trout (Salvelinus confluentus)	2	1.3.3	Review habitat information to identify and prioritize opportunities for channel restoration in Lake Creek	Unknown			Oregon Department of Fish and Wildlife, Burns Paiute Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost for study and design only; implementation costs unknown at this time
Bull Trout (Salvelinus confluentus)	2	1.3.3	Improve grazing practices	Unknown			Kootenai Tribe of Idaho, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	2	1.3.3	Increase or improve instream habitat by restoring recruitment of large woody debris or other means; mainstem Metolius.	Unknown			U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Covered under existing programs; action needs funds due to USFS funding reductions
Bull Trout (Salvelinus confluentus)	2	1.3.3	Improve grazing practices	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Indian Affairs	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	2	1.3.3	Reduce grazing impacts.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.3.3	Improve riparian and instream habitat	Unknown			Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.3	Assess stream habitat restoration potential	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs.
Bull Trout (Salvelinus confluentus)	2	1.3.3	Reduce grazing impacts	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.3	Evaluate and improve methods used for flood repair in the Umatilla and Walla Walla Core Areas	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.3.3	Adjust grazing practices to prevent negative effects on streambanks and riparian areas affecting bull trout habitats.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	2	1.3.3	Conduct implementation and effectiveness monitoring of livestock grazing impacts on Federal managed lands	Unknown			U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs

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Bull Trout (Salvelinus confluentus)	3	1.3.3	Conduct stream channel restoration activities.	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Warm Springs Reservation, U.S. Bureau of Land Management, Bonneville Power Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	e.g., mine tailings
Bull Trout (Salvelinus confluentus)	3	1.3.3	Develop and coordinate access and travel management plans.	Unknown			Washington Department of Fish and Wildlife, Chelan County, Washington, Okanogan County, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	1.3.4	Evaluate habitat conditions in the lower portion of the Little Lost River (i.e., the reach from the confluence of Summit Creek to the Little Lost River Sinks) and develop and implement a strategy to restore habitat conditions	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for feasibility study.
Bull Trout (Salvelinus confluentus)	1	1.3.4	Address road access impacts.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	1.3.4	Improve instream habitat	Unknown			U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	1.3.4	Identify and repair, remove, or relocate culverts.	Unknown			Resource conservation districts, Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.3.4	Improve compliance with riparian management guidelines	Unknown			Washington Department of Natural Resources	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.4	Identify and implement actions to restore stream and riparian habitats that have been degraded.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for identification of sites.
Bull Trout (Salvelinus confluentus)	2	1.3.4	Develop cooperative efforts with permittees and private landowners in the Upper Klamath Lake, Sycan River, and Upper Sprague River core areas to address riparian restoration and grazing issues	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.3.4	Restore floodplain function and channel complexity in the Umatilla Core Area	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.4	Restore stream channels	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Plum Creek Timber Company, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	See related task 1.3.1

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Bull Trout (Salvelinus confluentus)	2	1.3.4	Restore stream channels	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs	Work type not yet selected	Labor type not yet selected	See related task 1.3.1
Bull Trout (Salvelinus confluentus)	2	1.3.4	Work with private landholders	Unknown			U.S. Fish and Wildlife Service, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.4	Improve instream habitat	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.4	Revegetate denuded riparian areas	Unknown			Idaho Department of Fish and Game, Soil and Water Conservation Districts, Nez Perce Tribe, Upper Salmon Basin Watershed Project, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.3.4	Reduce campsite impacts	Unknown			U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	1.3.4	Assess the need for stream channel restoration activities and implement where necessary	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Implement if necessary

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Bull Trout (Salvelinus confluentus)	3	1.3.4	Assess the need for stream channel restoration activities.	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Implement if necessary.
Bull Trout (Salvelinus confluentus)	1	1.3.5	Improve instream habitat	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.5	Conduct limiting factors analysis for floodplain connectivity	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Yakama Nation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.5	Minimize mining impacts.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	1.3.5	Identify and repair, remove, or relocate roads.	Unknown			Washington Department of Natural Resources, Washington Department of Transportation, Chelan County, Washington, Okanogan County, Washington, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.3.5	Improve instream habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Lands, Montana Department of Natural Resources and Conservation, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	See related task 1.3.1
Bull Trout (Salvelinus confluentus)	2	1.3.5	Protect, maintain, and enhance anadromous fish habitat to increase available forage species for bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.3.5	Evaluate and implement actions to restore areas of Fish Lake Creek (Lochsa River) degraded by channelization and excessive bank erosion associated with the Fish Lake airstrip and campsites	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.5	Protect flood prone areas from re-development in the mainstem Umatilla River from Meacham Creek to the forks of the Umatilla River	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.5	Maintain roadless portions of bull trout watersheds in a roadless condition	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	2	1.3.5	Improve instream habitat	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs	Work type not yet selected	Labor type not yet selected	See related task 1.3.1
Bull Trout (Salvelinus confluentus)	2	1.3.5	Improve degraded aquatic and riparian habitats in the Indian Creek and Wildhorse River watersheds.	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.5	Restore stream channels on private land and work with community groups/private citizens	Ongoing Current	FY 2009		U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Management: Habitat Maintenance and Manipulation	Contract	In FY2010 the IFWO partially funded a bank stabilization project along Clear Creek on private lands in central Idaho, that will benefit bull trout and spring Chinook salmon. Seven instream structures and riparian shrub and tree plantings were placed along nearly 500 feet of stream bank to reduce bank erosion and provide instream fish habitat
Bull Trout (Salvelinus confluentus)	3	1.3.5	Maintain long-term wood recruitment in the Imnaha River subbasin.	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.3.5	Improve grazing practices	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.3.6	Conduct limiting factors analysis for impact of roads	Unknown			Washington Department of Natural Resources, Yakama Nation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	1	1.3.6	Minimize potential stream channel degradation	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Water Resources, Idaho Transportation Department, Idaho Watershed Advisory Groups, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Montana Department of Environmental Quality, Idaho Bureau of Disaster Services, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing management and administrative costs
Bull Trout (Salvelinus confluentus)	1	1.3.6	Revegetate denuded riparian areas	Unknown			Idaho Department of Environmental Quality, Soil and Water Conservation Districts, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.3.6	Manage camping.	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.6	Evaluate problems and identify solutions to restore channel complexity in the lower 4.8 kilometers of the South Fork Umatilla River	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	1.3.6	Improve instream habitat	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Environmental Quality, Soil and Water Conservation Districts, Upper Salmon Basin Watershed Project, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.3.6	Minimize impacts of dredging and sluicing within streams containing bull trout (i.e. Sullivan Creek)	Unknown			Washington Department of Natural Resources, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.6	Minimize potential stream channel degradation	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, U.S. Bureau of Reclamation, U.S. Department of Transportation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing management and administrative costs
Bull Trout (Salvelinus confluentus)	2	1.3.6	Conserve existing high quality bull trout habitat in Sheep Creek, Granite Creek and the Snake River.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	2	1.3.6	Avoid placement of new roads in riparian areas.	Unknown			Washington Department of Natural Resources, Washington Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	1.3.6	Evaluate and implement actions to restore degraded riparian habitat at Fish Lake (North Fork core area)	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.7	Develop habitat restoration/protection guidelines	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Kalispel Tribe, Spokane Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.7	Road management.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	1.3.7	Identify and restore riparian areas where livestock grazing is impacting bull trout habitat	Unknown			Idaho Department of Lands, Nez Perce Tribe, Idaho Soil Conservation Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.7	Assess forest practice regulations.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Target areas adjacent to bull trout watersheds. Currently being implemented as part of normal agency responsibilities under existing authorities

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Bull Trout (Salvelinus confluentus)	2	1.3.7	Minimize potential stream channel degradation from flood control actions	Unknown			Idaho Department of Water Resources, U.S. Bureau of Land Management, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Costs are excluded for emergency flood actions because costs are unpredictable. Proactive cost are ongoing.
Bull Trout (Salvelinus confluentus)	2	1.3.7	Evaluate current and legacy effects	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.3.7	Conduct a stream assessment in Sheep and Granite creeks.	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.3.7	Reduce channel constrictions in the South Fork Walla Walla between the U.S. Forest Service boundary and Harris Park	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.8	Develop habitat guidelines.	Unknown			Washington Department of Natural Resources, Washington Department of Ecology, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.8	Reduce road density and road-related sediment delivery.	Unknown			Washington Department of Natural Resources, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.8	Reduce current and legacy effects	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.3.8	Reduce road densities	Unknown			Washington Department of Natural Resources, Kalispel Tribe, Pend Oreille County, Washington, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.3.8	Identify riparian areas threatened by nonnative plant invasion, and evaluate and implement actions to restore native vegetation.	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.8	Maintain aquatic habitat conditions in current wilderness and roadless areas and/or areas with low road densities	Unknown			U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	3	1.3.8	Protect, maintain, and enhance anadromous fish habitats to increase available forage species for bull trout.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	1.3.8	Evaluate alternative access for cabin owners in the South Fork Walla Walla between National Forest boundary and Harris Park, and the upper South Fork Touchet River	Unknown			U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.3.9	Implement appropriate riparian management guidelines	Unknown			Idaho Department of Environmental Quality, Soil and Water Conservation Districts, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies

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Bull Trout (Salvelinus confluentus)	1	1.3.9	Implement habitat restoration at Box Canyon Dam, Sullivan Creek, and Boundary Dam	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Pend Oreille Public Utilities District, Seattle City Light, Spokane Tribe, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.3.9	Improve stream channels near transportation corridors	Unknown			County governments, Idaho Department of Fish and Game, Idaho Transportation Department, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.3.9	Reduce campsite and other recreation impacts	Unknown			County governments, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	2	1.3.9	Develop and implement habitat restoration and protection guidelines.	Unknown			Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	1.3.9	Identify and promote incentives and programs to restore floodplain function and channel complexity in the Walla Walla Core Area	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.4.1	Protect Lake Koocanusa habitat	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Montana Department of Environmental Quality, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing management costs
Bull Trout (Salvelinus confluentus)	1	1.4.1	Evaluate bull trout passage at Wells, Rock Island, and Rocky Reach dams, and initiate passage studies at Wanapum Dam.	Unknown			Washington Department of Fish and Wildlife, Chelan County Public Utilities District, Douglas County Public Utilities District, Grant County Public Utility District, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.4.1	Review and evaluate reservoir operations and provide recommendations through Federal Energy Regulatory Commission relicensing process and/or Federal consultation	Unknown			Oregon Department of Fish and Wildlife, Eugene Water and Electric Board, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Figures are for Carmen-Smith relicensing; EWEB proposed study; relicensing process to 2008
Bull Trout (Salvelinus confluentus)	1	1.4.1	Evaluate the impacts of Lower Granite Dam and Hells Canyon Dam.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.4.1	Evaluate instream flow requirements of bull trout	Unknown			Pend Oreille Public Utilities District, Seattle City Light, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.4.1	Optimize outflow patterns from Sherburne Dam	Unknown			Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing through section 7 consultation
Bull Trout (Salvelinus confluentus)	1	1.4.1	Evaluate the impacts of Lower Granite Dam and Hells Canyon Dam.	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.4.1	Evaluate and implement appropriate operations at Deadwood Dam to provide adequate flows and temperatures for bull trout downstream of the dam.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Coordinate with task 1.4.2. See Rieber, USBR, in litt. 2001.
Bull Trout (Salvelinus confluentus)	1	1.4.1	Fish passage.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Bureau of Reclamation, U.S. Geological Survey, Biological Resources Division, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	1.4.1	Reduce impacts of Post Falls Dam	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.1	Evaluate direct losses of bull trout through Dworshak Dam	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.1	Review City of Walla Walla and U.S. Army Corps of Engineers operations in Mill Creek and the Walla Walla River	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.1	Review reservoir operational concerns and provide operating recommendations through Federal consultation or other means	Unknown			U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Studies underway
Bull Trout (Salvelinus confluentus)	3	1.4.1	Integrate watershed analyses and restoration activities on public lands.	Unknown			Oregon Department of Fish and Wildlife, Northwest Power and Conservation Council, Soil and Water Conservation Districts, U.S. Bureau of Land Management, Bonneville Power Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Subbasin plans can be used as vehicle, no additional cost

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Bull Trout (Salvelinus confluentus)	3	1.4.1	Review reservoir operational concerns such as water level manipulation, entrainment, etc., such as at Pelton Round-Butte. Provide operating recommendations through FERC relicensing process and/or Federal consultation.	Unknown			Portland General Electric Company, Warm Springs Power Enterprises	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	1.4.1	Evaluate effects of reservoir operations on bull trout and implement operational changes to prevent negative effects and benefit bull trout if necessary.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Bureau of Reclamation	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation.
Bull Trout (Salvelinus confluentus)	1	1.4.2	Review reservoir operations at Federal Columbia River Power System facilities and revise as necessary	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Recommend-ations should be provided through the Federal Energy Regulatory Commission, State relicensing processes, and Federal consultations
Bull Trout (Salvelinus confluentus)	1	1.4.2	Establish a conservation pool in Deadwood Dam.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing, see Rieber, USBR, in litt. 2001.

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Bull Trout (Salvelinus confluentus)	1	1.4.2	Optimize outflow patterns from Libby Dam	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing through section 7 consultation
Bull Trout (Salvelinus confluentus)	1	1.4.2	Design and deploy gas abatement structures	Unknown			Pend Oreille Public Utilities District, Seattle City Light, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Cost for construction to be determined.
Bull Trout (Salvelinus confluentus)	1	1.4.2	Review reservoir operations at Federal Columbia River Power System facilities.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Recommendations should be provided through the FERC, state relicensing processes, and Federal consultations.
Bull Trout (Salvelinus confluentus)	2	1.4.2	Conduct limiting factors analyses for dam operations	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.2	Assess feasibility of providing fish passage at Leavenworth National Fish Hatchery.	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.4.2	Establish/provide instream flows downstream from reservoirs and stabilize flow regimes	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Reclamation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.2	Operate Dworshak Dam to reduce losses of kokanee salmon	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.4.2	Reduce entrainment.	Unknown			Washington Department of Fish and Wildlife, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.2	Provide adequate flows for fish passage below diversion dams	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.2	Establish and restore natural thermal regime	Unknown			Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing, in part, through Section 7 consultation
Bull Trout (Salvelinus confluentus)	3	1.4.2	Reduce levels of dissolved gases in water released from Brownlee Reservoir.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, Oregon Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	1.4.2	Maintain instream flows downstream from dams and reservoirs, including Bowman Dam.	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	1.4.2	Assess current and historic effects of upland management on changes to the hydrograph.	Unknown			Confederated Tribes of the Warm Springs Reservation, U.S. Bureau of Land Management, U.S. Geological Survey, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.4.3	Provide flushing flows	Unknown			Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing through section 7 consultation
Bull Trout (Salvelinus confluentus)	1	1.4.3	Provide flushing flows	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing through section 7 consultation

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Bull Trout (Salvelinus confluentus)	2	1.4.3	Evaluate the impact of summer drawdowns of Dworshak reservoir on upstream migration of bull trout	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.3	Identify research needs related to Post Falls Dam	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.4.3	Evaluate and reduce the impacts of tributary dams	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.4.3	Evaluate downstream passage at Tumwater and Dryden dams.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.4.3	Water temperature control.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.4.3	Plant site appropriate vegetation in the Tower, Summit, and Bull fire areas, focusing on nearby existing seed sources to speed natural recovery.	Unknown			Oregon Department of Forestry, Private Timber Companies (in Oregon), U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Agency requirement, no additional cost

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Bull Trout (Salvelinus confluentus)	3	1.4.3	Meet Tribal, State, and Federal water quality standards downstream from hydropower dam, Federal dams, and irrigation diversions, e.g., temperature, nitrogen, etc.	Unknown			Irrigation Districts, Oregon Department of Environmental Quality, Oregon Water Resources Department, Confederated Tribes of the Warm Springs Reservation, U.S. Bureau of Indian Affairs, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	1	1.4.4	Flow regimes.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Bureau of Reclamation, U.S. Geological Survey, Biological Resources Division, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.4.4	Avoid gas supersaturation	Unknown			Bonneville Power Administration, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing administrative and operational costs
Bull Trout (Salvelinus confluentus)	1	1.4.5	Reservoir operations.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Bureau of Reclamation, U.S. Geological Survey, Biological Resources Division, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	1.4.5	Examine bull trout loss of connectivity at Libby Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	1.4.6	Monitor kokanee entrainment through Libby Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing administrative and operational costs
Bull Trout (Salvelinus confluentus)	2	1.4.6	Reservoir investigations.	Unknown			Washington Department of Fish and Wildlife, U.S. Bureau of Reclamation, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.5.1	Assess current and historical effects of upland management on changes to the hydrograph, (e.g., timing and magnitude of peak flows) in all spawning tributaries	Unknown			U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	1.5.1	Monitor and mitigate fire effects, where necessary	Unknown			Idaho Department of Lands, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	1.5.1	Identify sediment sources in upland areas	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies



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Bull Trout (Salvelinus confluentus)	2	1.5.1	Monitor and mitigate fire effects, where necessary	Unknown			Idaho Department of Lands, Montana Department of Natural Resources and Conservation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	2	1.5.1	Assess watershed uplands for high runoff	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.5.1	Monitor and mitigate wildfire suppression effects wildfire effects to bull trout habitat	Unknown			Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	1.5.1	Assess current risk of catastrophic fire to bull trout populations.	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Take corrective action to reduce risks.
Bull Trout (Salvelinus confluentus)	3	1.5.1	Evaluate potential effects of degraded upland areas on stream and riparian habitats and implement actions to restore historic vegetation and processes where appropriate.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Oregon Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation.
Bull Trout (Salvelinus confluentus)	3	1.5.1	Identify existing road systems that have a high risk of adversely affecting bull trout streams	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	1.5.1	Monitor and mitigate fire effects, where necessary	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Bureau of Indian Affairs	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	3	1.5.1	Complete watershed assessment for applicable streams, such as the Crooked River.	Unknown			Upper Deschutes Watershed Council, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	1.5.1	Assess current and historical effects of upland management on changes to the hydrograph	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	1.5.1	Assess current risk of catastrophic fire to bull trout populations and reduce where necessary	Unknown			Boise Cascade Corporation, Inc., U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	1.5.2	Assess feasibility of reestablishing bull trout in the upper Deschutes core habitat, including an assessment of the capacity of habitat in the upper Deschutes to support self-sustaining populations of bull trout.	Ongoing Current	FY 2008		Oregon Department of Fish and Wildlife, Deschutes River Bull Trout Recovery Unit Team, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Research: Population Assessment	Contract	Surveys will be done to update status of adult bull trout in the Metolius basin to establish donor availability for a potential reintroduction into Clackamas R. Work is being conducted with ODFW
Bull Trout (Salvelinus confluentus)	2	1.5.2	Implement measures to increase water retention and slow runoff in watersheds exhibiting low or intermittent stream flows	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	1.5.2	Compensate for legacy timber harvest and associated roading practices	Unknown			Idaho Department of Lands, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agency
Bull Trout (Salvelinus confluentus)	2	1.5.2	Review fire suppression methods	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	1.5.2	Restore upland vegetation in high livestock use areas	Unknown			Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	3	1.5.2	Update the watershed analysis for the Upper Middle Fork Willamette River	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Upper Middle Fork Willamette River watershed analysis revision; cost covered under task 1.3.1
Bull Trout (Salvelinus confluentus)	3	1.5.2	Investigate impacts from development	Unknown			Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	1.5.3	Conduct watershed assessments	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Other tasks included under this funding
Bull Trout (Salvelinus confluentus)	3	1.5.3	Investigate use of prescribed fire to mimic natural disturbance to reinvigorate forest in South Fork Umatilla River above the lower 4.8 kilometers and in Shimmiehorn Creek	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	1.5.4	Determine changes to the hydrograph	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	1.5.5	Determine need for prescribed fires	Unknown			Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	1.6.1	Assess current risk of catastrophic fire to bull trout populations. Take corrective action to reduce risk of catastrophic fire to bull trout populations.	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	2	2.1.1	Upgrade fish hatchery practices	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs
Bull Trout (Salvelinus confluentus)	2	2.1.1	Update fish hatchery and stocking practices	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs
Bull Trout (Salvelinus confluentus)	2	2.1.2	Prevent introductions of nonnative fishes from private fish ponds	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs
Bull Trout (Salvelinus confluentus)	3	2.1.2	Renovate Flattop Lake	Unknown			Blackfeet Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs

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Bull Trout (Salvelinus confluentus)	3	2.2.1	Investigate the existence of brown trout in ponds on private land and work with landowners to prevent introductions in streams	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	2.2.1	Evaluate enforcement of fish stocking regulations.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Oregon State Police	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	2.2.1	Review efficacy of and compliance with fish stocking regulations	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon State Police	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	2.2.1	Investigate the existence of brook trout or lake trout in ponds on private land	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	3	2.2.2	Prevent dispersal of nonnative fish species that compete with bull trout on private lands	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	3	2.2.3	Monitor any eradication activities on private land	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	1	2.3.1	Provide information to the public about introduced fishes.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	2.3.1	Discourage unauthorized fish introductions	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Montana Department of Natural Resources and Conservation, Trout Unlimited, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs
Bull Trout (Salvelinus confluentus)	2	2.3.1	Develop and implement an educational effort to address problems and consequences of unauthorized fish introductions	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	2.3.1	Discourage unauthorized fish introductions	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs
Bull Trout (Salvelinus confluentus)	3	2.3.1	Design and implement educational effort about the problems and consequences of unauthorized fish introductions	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Watershed councils, Oregon State Police, Confederated Tribes of the Umatilla Indian Reservation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	2.3.1	Discourage unauthorized fish introductions	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered under Task 2.3.2
Bull Trout (Salvelinus confluentus)	2	2.3.2	Develop bull trout education program	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Part of broader programs
Bull Trout (Salvelinus confluentus)	2	2.3.2	Develop a bull trout education program	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Continue ongoing efforts; develop new programs
Bull Trout (Salvelinus confluentus)	1	2.4.1	Identify where bull trout and brook trout distribution overlap in all core areas	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	2.4.1	Evaluate various methods to reduce the abundance of brook trout.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	1	2.4.1	Evaluate feasibility of reducing or eliminating brook trout in Big Creek and implement appropriate actions	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for feasibility study.
Bull Trout (Salvelinus confluentus)	2	2.4.1	Identify overlap in bull trout and nonnative fish (brook trout) distribution in all core areas	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost could increase if extensive surveys required

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Bull Trout (Salvelinus confluentus)	2	2.4.1	Evaluate experimental removal of established brook trout populations	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs, see related tasks 2.5.1, 3.3.1, 3.4.2
Bull Trout (Salvelinus confluentus)	2	2.4.1	Develop protocols for suppressing nonnative fishes	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	2.4.1	Evaluate site-specific biological, economic, and social impacts of nonnative fish species on bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	Costs will be part of implementation of statewide nonnative species programs
Bull Trout (Salvelinus confluentus)	2	2.4.2	Develop protocols for suppressing nonnative fish and monitor impacts of ongoing actions	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Continue ongoing efforts
Bull Trout (Salvelinus confluentus)	2	2.4.2	Evaluate bull trout and lake trout life history/populations in Warm Lake and Riorden Lake	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	2.4.3	Evaluate bull trout and introduced rainbow trout interactions in Williams Lake in the Lake Creek Core Area	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	2.5.1	Implement management actions wherever feasible and biologically supportable to control nonnative fishes	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing



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Bull Trout (Salvelinus confluentus)	1	2.5.1	Assess feasibility of eradicating brook trout from the Wet Creek, Squaw Creek, and Mill Creek drainages	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for feasibility study.
Bull Trout (Salvelinus confluentus)	1	2.5.1	Reduce competition with brook trout where they are known to overlap with bull trout and there is a known species interaction that is adversely affecting bull trout in areas identified in 2.4.1	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	2.5.1	Reduce abundance and distribution of non-native species	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	2.5.1	Evaluate impacts of nonnative fish species in all bull trout-occupied waters and streams where reestablishment may occur	Unknown			Oregon Department of Fish and Wildlife, Klamath Basin Bull Trout Working Group, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Geological Survey, Universities	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	2.5.1	Non-native harvest.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	2.5.1	Implement brook trout removal effort(s) wherever feasible and biologically supportable	Unknown			Oregon Department of Fish and Wildlife, Burns Paiute Tribe	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	2.5.1	If feasible, reduce brook trout abundance where they overlap with bull trout and in areas where bull trout may become established.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Task dependent on results of task 2.4.1.
Bull Trout (Salvelinus confluentus)	1	2.5.1	Evaluate the presence of introduced fishes in bull trout core habitat and their potential interactions with bull trout, and develop and implement a plan to reduce potential negative effects.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost and time estimate for evaluation.
Bull Trout (Salvelinus confluentus)	2	2.5.1	Evaluate opportunities for experimental removal of brook trout and other competing nonnative fish species.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	2.5.1	Assess the interactions between bull trout and introduced fishes	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	If appropriate, design and implement programs to control or extirpate nonnative fishes
Bull Trout (Salvelinus confluentus)	2	2.5.1	Implement nonnative fish control	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs, see related tasks 2.4.1, 3.3.1, 3.4.2
Bull Trout (Salvelinus confluentus)	2	2.5.1	Control nonnative fishes in migratory corridors	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies

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Bull Trout (Salvelinus confluentus)	2	2.5.1	Evaluate presence/absence of introduced fishes in bull trout habitat and determine site specific biological, economic, and social impacts.	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	2.5.1	Assess the interactions between bull trout and introduced fishes.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	If appropriate, design and implement programs to control or extirpate nonnative fishes.
Bull Trout (Salvelinus confluentus)	3	2.5.1	Reduce brook trout competition with bull trout where they are known to coexist, and where brook trout numbers are relatively low	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agency(s)
Bull Trout (Salvelinus confluentus)	3	2.5.1	Implement management actions to reduce nonnative fish species where bull trout will benefit and where appropriate	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	Costs will be part of implementation of statewide nonnative species programs
Bull Trout (Salvelinus confluentus)	1	2.5.2	Eliminate stocking.	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities

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Bull Trout (Salvelinus confluentus)	1	2.5.2	Design measures to control nonnative fish	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, Klamath Basin Bull Trout Working Group, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	2.5.2	Prevent brook trout from entering areas currently unoccupied by brook trout and bull trout, wherever possible	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Areas unknown
Bull Trout (Salvelinus confluentus)	2	2.5.2	Assess severity of threat due to hybridization with brook trout where two species co-occur in the North Fork John Day River and upper mainstem John Day River.	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	in conjunctin with 2.5.1
Bull Trout (Salvelinus confluentus)	2	2.5.2	Experimentally remove nonnative fishes in spawning and rearing streams	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	2.5.2	Experimentally remove established brook trout populations from priority streams	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agency(s)

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Bull Trout (Salvelinus confluentus)	1	2.5.3	Reduce non-native species.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	2.5.3	Monitor brook trout expansion and prevent brook trout from entering areas that overlap with occupied and unoccupied bull trout habitat, wherever possible	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some costs covered by another program or agency, and/or other tasks (2.4.3, 2.5.1, 2.5.2)
Bull Trout (Salvelinus confluentus)	2	2.5.3	Implement nonnative species removal efforts wherever feasible and biologically supportable.	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	possibility of new introductins
Bull Trout (Salvelinus confluentus)	3	2.5.4	Assess stocking practices.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	2.5.4	Evaluate extent of hybridization between bull and brook trout in areas where brook trout are firmly established and eradication is not possible.	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some costs covered by another program or agency, and/or other tasks (2.4.3, 2.5.1, 2.5.2, 2.5.3).
Bull Trout (Salvelinus confluentus)	1	2.6.1	Implement coordinated efforts among resource agencies to remove or suppress brook trout in the Indian Creek and Wildhorse River basins if determined to be feasible.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Task dependent on results of task 2.5.1.
Bull Trout (Salvelinus confluentus)	1	2.6.1	Assess feasibility of temporally installing fish barriers above the upper limit of brook trout distribution in Wet, Squaw, and Mill Creeks	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Coordinate with task 2.5.1.

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Bull Trout (Salvelinus confluentus)	1	2.6.1	Liberalize harvest regulations to reduce non-natives where bull trout will benefit	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	2.6.1	Continue to monitor for brook trout expansion.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	2.6.1	Experimentally remove established brook trout populations	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	2.6.1	Evaluate impacts of nonnative fish species on bull trout.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	2.6.1	Assess effectiveness of removing nonnative salmonids in bull trout streams	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, Klamath Basin Bull Trout Working Group, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	2.6.1	Where necessary, implement management actions to reduce the distribution/abundance of nonnative species	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	2.6.1	Implement management actions to reduce nonnatives where bull trout will benefit.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	2.6.2	Evaluate presence/absence of introduced fishes in bull trout habitat and determine site specific biological, economic, and social impact	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	2.6.2	Monitor the lower portions of Badger and Williams Creeks for brook trout if barriers to fish passage with the Little Lost River are corrected	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management	Work type not yet selected	Labor type not yet selected	Contingent on tasks 1.2.1 and 1.2.3. Assumed 25 years of implementation. Task duration coincident with permitted grazing.
Bull Trout (Salvelinus confluentus)	3	2.6.2	Investigate feasibility of screening the outlet at Twin Lakes.	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	2.6.3	Monitor the lower portions of Warm, Iron, Timber, and Smithie Fork Creeks and the upper Little Lost River for brook trout	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	3. 1. 1	Incorporate bull trout recovery into State and regional conservation plans	Unknown			Oregon Department of Fish and Wildlife, Hood River Watershed Group, Oregon Watershed Enhancement Board	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	3. 1. 2	Integrate research results	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	3. 1. 3	Restore forage (prey) base	Unknown			Oregon Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Salmon restoration activities

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	3. 1. 4	Coordinate with other recovery efforts	Unknown			Oregon Department of Fish and Wildlife, Hood River Watershed Group, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Part of existing funded efforts
Bull Trout (Salvelinus confluentus)	3	3. 1. 5	Establish bull trout in other areas	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3. 2. 1	Assess impact of incidental harvest	Unknown			Oregon Department of Fish and Wildlife, Oregon State Police, Confederated Tribes of the Warm Springs Reservation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Creel and enforcement time
Bull Trout (Salvelinus confluentus)	2	3. 2. 2	Assess hooking mortality	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3. 2. 3	Refine angling regulations	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3. 2. 4	Continue fish identification education	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	3.1.1	Continue reestablishment of bull trout into the Upper Middle Fork Willamette River	Ongoing Current	FY 2008		Oregon Department of Fish and Wildlife, Eugene Water and Electric Board, U.S. Fish and Wildlife Service, U.S. Forest Service	Management: Reintroduction	Contract	Fry reintroductions limited to 5-6 years; some sites begun later



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Bull Trout (Salvelinus confluentus)	1	3.1.1	Incorporate bull trout recovery actions into The Oregon Plan for Salmon and Watersheds and the Pacific Northwest Power Planning Council Subbasin plans	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Currently providing monthly reports to Oregon Plan staff
Bull Trout (Salvelinus confluentus)	1	3.1.1	Coordinate plans associated with fish management	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Northwest Power and Conservation Council, Confederated Tribes of the Umatilla Indian Reservation, Nez Perce Tribe, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	3.1.1	Coordinate plans associated with fish management.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Northwest Power and Conservation Council, Nez Perce Tribe, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.1.1	Develop comprehensive fisheries management plans for Boundary and Box Canyon Reservoirs that incorporate bull trout recovery	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	3.1.1	Develop bull trout fishery management plan	Unknown			Washington Department of Fish and Wildlife, Yakama Nation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.1.1	Develop a comprehensive fishery management plan for the Clearwater River Recovery Unit incorporating bull trout recovery and utilizing adaptive management	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Costs partially covered by ongoing agency funding for existing programs
Bull Trout (Salvelinus confluentus)	2	3.1.1	Incorporate bull trout recovery actions into State and regional plans	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.1.1	Integrate multiple planning processes, incorporating bull trout recovery actions into The Oregon Plan for Salmon and Watersheds and the Pacific Northwest Power Planning Council Subbasin plans.	Unknown			Oregon Department of Fish and Wildlife, Northwest Power and Conservation Council, Soil and Water Conservation Districts, U.S. Bureau of Land Management, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.1.1	Incorporate bull trout recovery actions into existing plans	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Ongoing, rule changes to ODFW basin plans will require approval by Fish and Wildlife Commission.
Bull Trout (Salvelinus confluentus)	3	3.1.1	Integrate bull trout recovery monitoring in the Klamath River basin into the Oregon Plan for Salmon and Watersheds	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	3.1.1	Develop comprehensive fishery management plan for the Salmon River Recovery Unit that incorporates bull trout recovery	Unknown			Idaho Department of Fish and Game, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	3.1.1	Incorporate bull trout recovery actions into ODFW Deschutes basin fish management plans, the Oregon Plan for Salmon and Watersheds, and the Pacific Northwest Power Planning Council Subbasin plans. Request assistance with implementation of recovery strategies for bull trout through all three plans.	Unknown			Oregon Department of Fish and Wildlife, Deschutes River Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	3.1.1	Implement adaptive management	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs

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Bull Trout (Salvelinus confluentus)	3	3.1.1	Incorporate bull trout recovery actions into fish and habitat management plans relevant to the Hells Canyon Complex Recovery Unit.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, Oregon Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	3.1.2	Incorporate bull trout recovery actions into the ODFW's Willamette River basin fish management plans	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	May require action by Fish and Wildlife Commission
Bull Trout (Salvelinus confluentus)	2	3.1.2	Coordinate bull trout recovery with recovery efforts, management plans, etc. for other species	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.1.2	Coordinate monitoring with the Oregon Salmon Plan.	Unknown			Oregon Department of Fish and Wildlife, Oregon Watershed Enhancement Board	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	3.1.2	Coordinate bull trout recovery monitoring with activities conducted under management plans and adaptively integrate the results of research into management plans and programs.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, Oregon Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	3.1.2	Coordinate bull trout recovery with recovery efforts, management plans, etc. of other species such as redband trout	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Covered under existing management plan.
Bull Trout (Salvelinus confluentus)	3	3.1.2	Coordinate recovery efforts on bull trout, salmon, and steelhead	Unknown			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.1.2	Incorporate bull trout recovery needs into existing and future Tribal fisheries plans	Unknown			Shoshone-Bannock Tribe, Nez Perce Tribe	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	3	3.1.2	Coordinate recovery efforts on bull trout, salmon and steelhead.	Unknown			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	3	3.1.2	Conduct assessment of nutrient levels and cycling	Unknown			Washington Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.1.2	Coordinate bull trout recovery with recovery efforts, management plans, etc. of other species, e.g., chinook salmon.	Unknown			Deschutes River Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	2	3.1.3	Coordinate bull trout recovery with management plans and with recovery and other efforts for other species, such as chinook salmon and steelhead trout	Ongoing Current	FY 2008		Oregon Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Other: Information and Education	Species Expert	Conducted expert panel workshop to determine potential impact of reintroducing bull trout into Clackamas River on existing salmonids. Funded by OFWO
Bull Trout (Salvelinus confluentus)	2	3.1.3	Restore the historic prey base for bull trout by reestablishing viable populations of anadromous fish.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Power Company, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Coordinate with tasks 1.2.4.
Bull Trout (Salvelinus confluentus)	3	3.1.4	Coordinate bull trout recovery monitoring in the Willamette River basin with the monitoring program for the Oregon Plan for Salmon and Watersheds	Unknown			Oregon Department of Fish and Wildlife, Willamette Restoration Initiative, U.S. Bureau of Land Management, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	3.1.4	Evaluate and improve fisheries management guidelines and policies designed to protect native species.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	3.1.5	Restore historic prey base by reestablishing spring chinook salmon into habitats occupied by bull trout	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	3.1.5	Comply with management plans that improve Snake River anadromous fish smolt:adult return ratios or fish production for the upper Snake River basin.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	3.2.1	Harvest regulations.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	3.2.1	Assess existing and potential impacts of angling on bull trout populations	Unknown			Oregon Department of Fish and Wildlife, National Park Service	Work type not yet selected	Labor type not yet selected	Every 4 years based on regulatory process
Bull Trout (Salvelinus confluentus)	2	3.2.1	Increase angler education and outreach efforts	Unknown			Oregon Department of Fish and Wildlife, Odell Lake Bull Trout Recovery Unit Team, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	May be combined with other similar actions in other RUs.

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Bull Trout (Salvelinus confluentus)	2	3.2.1	Evaluate effects of fishing (e.g., illegal harvest, hooking mortality) on bull trout and implement appropriate actions (e.g., providing information to anglers, enforcing regulations, revising regulations) to reduce any negative effects	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.2.1	Minimize unintentional bull trout mortality	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Environmental Quality, Idaho Department of Lands, Montana Department of Natural Resources and Conservation	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs
Bull Trout (Salvelinus confluentus)	2	3.2.1	Maintain bull trout as high priority for Oregon's Cooperative Enforcement Program	Unknown			Oregon Department of Fish and Wildlife, Oregon State Police	Work type not yet selected	Labor type not yet selected	Priorities set at annual coordination meetings
Bull Trout (Salvelinus confluentus)	2	3.2.1	Ensure compliance with angling regulations and policies and target problem areas for enforcement.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Environmental Quality, Oregon State Police, U.S. Bureau of Land Management, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Agency responsibility, no additional cost



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Bull Trout (Salvelinus confluentus)	2	3.2.1	Continue implementation and enforcement of restrictive fishing regulations	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	3.2.1	Evaluate the amount and relative threat of illegal bull trout harvest and incidental fishing mortality	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Cost covered under Task 5.2.1 and 5.2.2
Bull Trout (Salvelinus confluentus)	2	3.2.1	Ensure compliance with harvest regulations.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	3.2.1	Conduct a creel census at Trail Bridge Reservoir to document angling pressure and mortality	Unknown			Oregon Department of Fish and Wildlife, Eugene Water and Electric Board	Work type not yet selected	Labor type not yet selected	Proposal submitted to USFWS for section 6 funding
Bull Trout (Salvelinus confluentus)	3	3.2.1	Provide information to anglers	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.1	Provide educational opportunities	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.1	Develop, implement, and evaluate angling regulations intended to minimize incidental mortality of bull trout.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	3.2.1	Minimize unintentional bull trout mortality	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs

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Bull Trout (Salvelinus confluentus)	3	3.2.1	Evaluate the impact of current sport angling regulations on bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.1	Evaluate the effects of fishing (e.g., illegal harvest and hooking mortality on bull trout).	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	3.2.1	Maintain bull trout as high priority for Oregon's Cooperative Enforcement Program and with WDFW enforcement division	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon State Police	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.1	Continue and expand public education programs for fish identification, angling regulations, reasons for protective regulations on bull trout, and fish handling practices.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	1	3.2.2	Continue to implement and monitor compliance with protective angling regulations	Unknown			Oregon Department of Fish and Wildlife, National Park Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	3.2.2	Enforce sport angling regulations	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon State Police	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.2	Reduce fishing pressure.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities

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Bull Trout (Salvelinus confluentus)	2	3.2.2	Reduce angler pressure in key areas where incidental mortality is evaluated as detrimental to recovery.	Unknown			Oregon Department of Fish and Wildlife, Oregon State Police, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.2	Provide information to anglers	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.2	Develop fish management strategies to achieve a sustainable Odell Lake adfluvial bull trout population	Unknown			Odell Lake Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.2.2	Ensure compliance with angling regulations and oversee scientific research	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 3.2.1, 3.2.3, 3.4.1
Bull Trout (Salvelinus confluentus)	2	3.2.2	Reduce angler pressure.	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	3.2.2	Increase information outreach to anglers	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs are for development of materials; implementation would be an ongoing process

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Bull Trout (Salvelinus confluentus)	3	3.2.2	Conduct additional patrols during vulnerable times (e.g., spawning), and coordinate these among agencies	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon State Police, Confederated Tribes of the Umatilla Indian Reservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.2	Investigate and minimize incidental or illegal catch of bull trout	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.2	Continue providing information to the public about fishing regulations and bull trout identification	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	3.2.2	Continue enforcement of current fishing regulations and increase patrols.	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	3	3.2.2	Evaluate enforcement of angling regulations and evaluate/review scientific research	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 3.2.1, 3.2.3, 3.4.1, 3.4.2
Bull Trout (Salvelinus confluentus)	3	3.2.2	Continue public outreach about fishing regulations, bull trout identification, and proper handling / release techniques	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	3.2.3	Continue enforcement of current fishing regulations. Consider regulation changes such as tributary closures to protect bull trout	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	3.2.3	Address road access impacts	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	3.2.3	Provide information to the public about low-impact angling	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.3	Implement angler education efforts	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 3.2.1, 3.2.2, 3.4.1
Bull Trout (Salvelinus confluentus)	2	3.2.3	Reduce angler pressure	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	3.2.3	Provide information to anglers.	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.3	Continue to provide information to anglers about bull trout identification and special regulations	Unknown			Oregon Department of Fish and Wildlife, National Park Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.2.3	Provide information to anglers.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.3	Implement angler education efforts	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 3.2.1, 3.2.2, 3.4.1, 3.4.2

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	3.2.3	Review and improve disincentives to illegal harvest of bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Watershed councils, Oregon State Police	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.3	Evaluate compliance of angling regulations and incidence of bull trout poaching in Gold Fork River from Kennally Creek upstream to the confluence of the North Fork and South Fork Gold Fork River.	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.3	Continue enforcement of current fishing regulations	Unknown			Idaho Department of Fish and Game, Shoshone-Bannock Tribe, Nez Perce Tribe	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	3.2.3	Improve and implement fisheries management guidelines and policies designed to protect native species	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	3.2.4	Increase enforcement activities relating to the no bull trout harvest regulations	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.4	Solicit information from commercial fishermen	Unknown			Blackfeet Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost
Bull Trout (Salvelinus confluentus)	2	3.2.4	Develop and implement a bull trout fishery management plan.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.2.4	Evaluate impacts of fishing regulations	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	3.2.4	Solicit information from commercial guides	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	3	3.2.4	Inform public about fish ecology, fish management, and fish management issues	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	3.2.4	Provide information to the public about bull trout identification and special regulations	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Watershed councils, Confederated Tribes of the Umatilla Indian Reservation, Oregon and Washington Educational Institutions, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Pro-rated costs as part of statewide program
Bull Trout (Salvelinus confluentus)	1	3.2.5	Develop alternative method of commercial lake whitefish capture	Unknown			Blackfeet Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Fishery management cost
Bull Trout (Salvelinus confluentus)	1	3.2.5	Coordinate with British Columbia	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.2.5	Increase natural forage (prey) base.	Unknown			Washington Department of Fish and Wildlife, Chelan County Public Utilities District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	3.2.5	Explore with land owners the feasibility of interpretive signs at the Bar M Ranch (Reach IV)	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.2.5	Inform the public about bull trout issues and general fisheries biology and management issues	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered under Task 2.3.2
Bull Trout (Salvelinus confluentus)	1	3.2.6	Coordinate with Alberta	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.2.6	Evaluate impacts to bull trout from the general fishing season in the Lost River.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	3.2.7	Monitor scientific collection.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	3.3.1	Discontinue stocking of brook trout.	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	3.3.1	Evaluate site-specific conflicts with introduced sport fish	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	3.3.1	Evaluate site-specific conflicts with introduced sport fish	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	3.3.1	Determine site-specific levels of competition and hybridization with introduced sport fish and assess impacts of those interactions	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.3.1	Evaluate site specific conflicts with introduced sport fish	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.3.1	Evaluate impacts of stocking programs	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.3.1	Assess impact of nonnative species	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.3.1	Evaluate the potential for release of excess hatchery stock of anadromous fish into occupied bull trout habitat	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Some funding covered by other programs
Bull Trout (Salvelinus confluentus)	2	3.3.1	Review anadromous fish stocking programs	Unknown			Idaho Department of Fish and Game, Shoshone-Bannock Tribe, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Lower Snake River Compensation Plan	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	3.3.1	Evaluate the effects of fish stocking and the fishery on bull trout in Deadwood Reservoir.	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.3.1	Evaluate the effects of fish stocking and the fishery on bull trout in Cracker Creek and Phillips Reservoir.	Unknown			Oregon Department of Fish and Wildlife, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	3.3.2	Reduce and/or control spread of nonnative species	Unknown			Washington Department of Fish and Wildlife, Yakama Nation	Work type not yet selected	Labor type not yet selected	Cost estimate dependent upon 3.3.1
Bull Trout (Salvelinus confluentus)	3	3.3.2	Investigate compliance with fishing regulations during the steelhead fishing season	Unknown			Idaho Department of Fish and Game, Shoshone-Bannock Tribe, Nez Perce Tribe, Bonneville Power Administration, U.S. Fish and Wildlife Service, Lower Snake River Compensation Plan	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.3.3	Investigate ecological interactions	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	3.3.3	Investigate effects of resident fish stocking on bull trout and implement actions to reduce adverse effects, if appropriate	Unknown			Idaho Department of Fish and Game, Shoshone-Bannock Tribe, Nez Perce Tribe	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.4.1	Determine effects of existing sport fishing regulations in Odell Lake on bull trout	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Covered under existing programs, but subject to available funding.
Bull Trout (Salvelinus confluentus)	2	3.4.1	Evaluate and implement harvest regulations that reduce nonnative fish populations impacting bull trout.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	3.4.1	Evaluate opportunities for regulated bull trout fisheries	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 3.2.1, 3.2.2, 3.2.3
Bull Trout (Salvelinus confluentus)	2	3.4.1	Evaluate effects of existing and proposed angling regulations on bull trout	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agency
Bull Trout (Salvelinus confluentus)	2	3.4.1	Improve and/or implement fisheries management guidelines and policies designed to protect native species	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	3.4.1	Evaluate impact of scientific collection permits on bull trout local populations	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	3.4.1	Investigate compliance with fishing regulations during the summer general fishing season	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	3	3.4.1	Evaluate opportunities for regulated bull trout fisheries	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 2.4.1, 2.5.1, 3.2.1, 3.2.2, 3.2.3, 3.4.2
Bull Trout (Salvelinus confluentus)	2	3.4.2	Increase harvest of competing species	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 2.4.1, 2.5.1, 3.2.1, 3.2.2, 3.2.3, 3.4.1

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Bull Trout (Salvelinus confluentus)	2	3.4.2	Evaluate the impact of the sport fishing season in the two Fish Lake core areas on the adfluvial bull trout populations	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing in North Fork Fish Lake
Bull Trout (Salvelinus confluentus)	3	3.4.3	Evaluate the impact of the bonus brook trout limit in the Clearwater River Recovery Unit and increase the limit, if possible	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	4.1.1	Document and monitor genetic baselines for each local population	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	4.1.1	Conduct genetic inventory	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs covered in Chapter 1
Bull Trout (Salvelinus confluentus)	1	4.1.1	Develop genetic management plan	Unknown			Oregon Department of Fish and Wildlife, Burns Paiute Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	4.1.1	Develop genetic management plan.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	4.1.1	Conduct a genetic inventory	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	4.1.1	Conduct genetic inventory	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost
Bull Trout (Salvelinus confluentus)	2	4.1.1	Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout (see Chapter 1 narrative).	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, Oregon Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See Chapter 1.
Bull Trout (Salvelinus confluentus)	2	4.1.1	Conduct genetic inventory	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost; see related task 4.1.2
Bull Trout (Salvelinus confluentus)	3	4.1.1	Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, conducted in conjunction with existing monitoring activities.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	4.1.1	Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	4.1.1	Determine genetic relationships among bull trout populations in the Klamath River Recovery Unit	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	4.1.1	Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout (see Chapter 1 narrative).	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See chapter 1.
Bull Trout (Salvelinus confluentus)	3	4.1.1	Determine genetic relationships between bull trout populations in the Umatilla/Walla Walla Recovery Unit	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	4.1.1	Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout.	Ongoing Current	FY 2008		U.S. Fish and Wildlife Service	Research: Genetics	Contract	Covered under existing programs The number of bull trout populations and those population's structure in the Metolius River basin is not well understood. The information from this study will allow managers to make scientifically defensible decisions regarding managing bull trout in the Metolius, and whether Metolius bull trout could be used as a donor stock to re-establish populations in extirpated areas.
Bull Trout (Salvelinus confluentus)	2	4.1.2	Manage local populations (number and life form) to maintain long-term viability	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	2	4.1.2	Describe and monitor genetic and phenotypic characteristics of bull trout, and incorporate information into management strategies	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by other programs and other Tasks (see 4.1.1)
Bull Trout (Salvelinus confluentus)	2	4.1.2	Maintain long-term viability	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost; see related task 4.1.1

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Bull Trout (Salvelinus confluentus)	3	4.1.2	Describe and monitor genetic and phenotypic characteristics of bull trout in core areas, and incorporate information into management strategies.	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for the collection of tissue during existing surveys.
Bull Trout (Salvelinus confluentus)	3	4.1.2	Describe and monitor genetic and phenotypic characteristics of bull trout and incorporate information into management strategies	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, coordinate with task 4.1.1.
Bull Trout (Salvelinus confluentus)	3	4.1.2	Manage local populations (numbers and life forms) to maintain long-term viability.	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	2	4.1.3	Investigate the genetic composition of isolated bull trout populations in Opal and Williams lakes	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	4.2.1	Maintain connectivity with British Columbia	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Watershed Advisory Groups, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	4.2.1	Maintain connectivity with Alberta	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	4.2.1	Manage local populations (numbers and life forms) to maintain long-term viability	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	4.2.1	Prevent the establishment of barriers that may inhibit the movement of bull trout within the Little Lost River Recovery Unit (e.g., structural barriers or unsuitable habitat conditions) and investigate additional opportunities to improve passage	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing, cost estimates to investigate additional opportunities to improve passage.
Bull Trout (Salvelinus confluentus)	1	4.2.1	Prevent the establishment of barriers that may inhibit the movement of bull trout within the Payette River Recovery Subunit.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.

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Bull Trout (Salvelinus confluentus)	1	4.2.1	Investigate additional opportunities to improve passage	Unknown			County governments, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Plum Creek Timber Company, Nez Perce Tribe, Idaho Soil Conservation Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	4.2.1	Artificial propagation.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	4.2.1	Determine where barriers to migration exist	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	4.2.1	During project planning, ensure new projects provide for connectivity within the Salmon River Recovery Unit.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Environmental Quality, Idaho Transportation Department, U.S. Bureau of Land Management, U.S. Federal Highway Administration, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	4.3.1	Evaluate the need for re-establishing genetic connectivity between the North Fork Clearwater River and the remainder of the recovery unit	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered under other programs and Tasks (see 4.1.1)
Bull Trout (Salvelinus confluentus)	3	4.3.1	Assess the potential for reestablishment of local populations in Wenatchee Creek and above the Wallowa Lake Dam	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	4.3.1	Establish genetic protocols	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	4.3.1	Develop genetic protocols	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	4.3.1	Develop protocols for and evaluate the feasibility of reintroducing bull trout into apparent historic or suitable habitat within the Hells Canyon Complex Recovery Unit.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for protocol development.
Bull Trout (Salvelinus confluentus)	3	4.3.1	Establish genetic reserve protocols.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	4.3.2	Establish genetic baselines	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	4.3.2	Establish genetic baselines.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	4.3.2	Establish genetic baselines	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	4.3.2	Reestablish bull trout in Wenatchee Creek and above the Wallowa Lake Dam if feasible	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Dependent on 4.3.2.
Bull Trout (Salvelinus confluentus)	2	4.3.3	Evaluate threat of hybridization with brook trout	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	4.3.3	Evaluate hybridization with brook trout.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	4.3.3	Evaluate hybridization with brook trout	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	4.3.4	Determine feasibility and appropriateness of artificial propagation.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	4.3.4	Conduct feasibility study on artificial propagation in the White Salmon and Klidkitat basins	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	4.3.4	Evaluate feasibility of an artificial propagation program	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	4.3.5	Conduct artificial propagation where deemed necessary and appropriate	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5. 1. 1	Evaluate restoration effectiveness	Unknown			Oregon Department of Fish and Wildlife, Hood River Watershed Group, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs depend on the number of completed projects
Bull Trout (Salvelinus confluentus)	2	5. 1. 2	Coordinate with other monitoring efforts	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Warm Springs Reservation, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Part of existing funded efforts
Bull Trout (Salvelinus confluentus)	2	5. 2. 1	Assess threats from catastrophic events	Unknown			Oregon Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5. 2. 2	Incorporate recovery efforts into county plans	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Environmental Quality, Hood River Watershed Group, Confederated Tribes of the Warm Springs Reservation	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	5. 2. 3	Investigate bull trout ecology in Laurance Lake	Unknown			Oregon Department of Fish and Wildlife, Irrigation Districts, Bonneville Power Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Several years needed to deal with variation
Bull Trout (Salvelinus confluentus)	2	5. 2. 4	Evaluate food web	Unknown			Oregon Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5. 2. 5	Determine extent of use of the Columbia River	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Task may be able to utilize existing or planned infrastructure
Bull Trout (Salvelinus confluentus)	3	5. 4. 1	Monitor to detect pathogen effects	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Warm Springs Reservation, U.S. Geological Survey, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Fish Disease Lab in Underwood, Washington.
Bull Trout (Salvelinus confluentus)	2	5. 4. 2	Research eye abnormalities	Unknown			Oregon Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5. 6. 1	Gather more detailed life history information.	Unknown			Oregon Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some aspects of this action are ongoing in the basin.

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Bull Trout (Salvelinus confluentus)	1	5.1.1	Design and implement a standardized, statistically sound bull trout population monitoring program	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.1.1	Habitat assessments.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Bureau of Reclamation, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.1.1	Develop coordination infrastructure to facilitate restoration	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Idaho Watershed Advisory Groups, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Some funding covered by another program or agency

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Bull Trout (Salvelinus confluentus)	2	5.1.1	Monitor and assess the biological responses and changes in habitat from implementation of to recovery tasks	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.1.1	Increase monitoring	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.1.1	Institute annual redd counts in index reaches	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	5.1.1	Coordinate bull trout recovery monitoring in the Deschutes Basin with the Oregon Plan for Salmon and Watersheds monitoring program.	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	5.1.1	Evaluate effectiveness of different habitat restoration techniques in restoring channel functions and local bull trout populations in the Malheur Core Area	Unknown			Burns Paiute Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.1.2	Develop a map-based process to track recovery efforts and bull trout distribution and abundance in the Salmon River Recovery Unit	Unknown			California Environmental Protection Agency, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	5.1.2	Develop a comprehensive map of primary bull trout tributary reaches for focusing habitat protection and recovery efforts	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.1.2	Assess habitat restoration techniques	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Grand Ronde Model Watershed Program, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.1.2	Develop standardized population monitoring techniques and procedures	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by other programs and other Tasks
Bull Trout (Salvelinus confluentus)	1	5.2.1	Further define bull trout distribution and habitat use in the John Day Recovery Unit.	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Warm Springs Reservation, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.2.1	Conduct limiting factors analyses	Unknown			Idaho Department of Fish and Game, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Possible graduate student project

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Bull Trout (Salvelinus confluentus)	1	5.2.1	Determine factors limiting bull trout recovery in the Odell Lake Recovery Unit	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	USFS hopes to study how water quality and stratification affect bull trout distribution and access to tributaries during spawning.
Bull Trout (Salvelinus confluentus)	1	5.2.1	Monitoring program.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	5.2.1	Identify threats that may be limiting bull trout in watersheds not already evaluated	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.2.1	Conduct further sampling in the mainstem Indian Creek to identify lower distribution limits of spawning and rearing habitat	Unknown			Oregon Department of Fish and Wildlife, Boise Cascade Corporation, Inc., U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.2.1	Identify site-specific threats that may be limiting bull trout in watersheds with historical bull trout habitat	Unknown			Malheur Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.1	Delineate important migratory habitat	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	5.2.1	Determine abundance of and habitat use by fluvial trout and habitats used in the Salmon River Recovery Unit	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	5.2.1	Standardize and implement sampling protocol for bull trout	Unknown			Washington Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.1	Determine the abundance of fluvial, adfluvial, and resident bull trout and habitat used in the Clearwater River Recovery Unit	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing. Some funding covered under other programs, agencies, and Tasks
Bull Trout (Salvelinus confluentus)	2	5.2.1	Determine suitability of temperature regimes in currently occupied and potentially restorable bull trout drainages	Unknown			Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.1	Assess habitat conditions and capacity in tributaries with historic or potential habitat in the Upper Willamette core area	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.1	Delineate important migratory habitat	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	5.2.1	Determine range of temperature tolerances for bull trout life stages in different habitats	Unknown			Oregon Department of Fish and Wildlife, Klamath Basin Bull Trout Working Group, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Geological Survey, Universities	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.2.1	Evaluate historic and current conditions of all habitat types in each watershed within the Hells Canyon Recovery Unit.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	5.2.1	Conduct watershed assessments.	Unknown			Oregon Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.2.1	Develop and implement a monitoring program.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	1	5.2.2	Conduct feasibility studies	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Possible graduate student project; funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	5.2.2	Determine range of temperature tolerances for bull trout life stages in different habitats.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	5.2.2	Evaluate habitat condition and bull trout use of the Grande Ronde valley	Unknown			Oregon Department of Fish and Wildlife, Grand Ronde Model Watershed Program	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.2.2	Evaluate effects of entrainment losses on population status	Unknown				Work type not yet selected	Labor type not yet selected	See related task 1.2.1
Bull Trout (Salvelinus confluentus)	1	5.2.2	Develop and implement habitat guidelines	Unknown			Washington Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.2	Assess capacity of habitat in the Santiam and Clackamas River basins to support self-sustaining populations of bull trout	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.2	Protect and restore habitat in the Odell Lake Recovery Unit	Ongoing Current	FY 2008		U.S. Forest Service	Management: Habitat Maintenance and Manipulation	Contract	Ongoing, covered under existing programs. Funding provided to place approx 75 trees in stream corridor of Trapper Creek. Partnership with Upper Deschutes Watershed Council and Deschutes National Forest.
Bull Trout (Salvelinus confluentus)	2	5.2.2	Develop and implement protocol to estimate the mortality factors for local populations	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding partially covered by Task 5.2.1

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Bull Trout (Salvelinus confluentus)	2	5.2.2	Map bull trout spawning habitat	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	5.2.2	Determine movement and seasonality of use of different habitat types by bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.2.2	Review findings of continuing studies conducted by Idaho Power Company and others to develop additional recovery tasks for bull trout and other native fishes.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	5.2.2	Determine the movement and seasonality of use of different habitat types by adult and sub-adult migratory bull trout in multiple streams, with emphasis on reservoirs and mainstem rivers	Unknown			Oregon Department of Fish and Wildlife, Malheur Bull Trout Recovery Unit Team, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	In progress

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Bull Trout (Salvelinus confluentus)	3	5.2.2	Assess current and historical effects of upland management on changes to the hydrograph	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.2.2	Research the link between system productivity and bull trout abundance	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Plum Creek Timber Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	5.2.3	Investigate potential for restoring historic prey base by reintroducing anadromous species	Unknown			Oregon Department of Fish and Wildlife, Burns Paiute Tribe	Work type not yet selected	Labor type not yet selected	Cost is for feasibility analysis only
Bull Trout (Salvelinus confluentus)	1	5.2.3	Determine the seasonal movement patterns of adult and sub-adult, migratory bull trout.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	5.2.3	Assess habitat potential for expanding local populations	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Boise Cascade Corporation, Inc., Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.3	Evaluate temperature as a limiting factor	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	See related task 1.3.1
Bull Trout (Salvelinus confluentus)	2	5.2.3	Continue the implementation of existing bull trout population abundance studies	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs
Bull Trout (Salvelinus confluentus)	2	5.2.3	Assess Saint Mary Reservoir	Unknown			Alberta Sustainable Resource Development	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.2.3	Map spawning habitat	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	5.2.4	Evaluate habitat limiting factors for Bull and Sophie Lake core areas	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	5.2.4	Evaluate temperature as a limiting factor	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 1.3.1
Bull Trout (Salvelinus confluentus)	2	5.2.4	Conduct presence/absence surveys in previously uninventoried areas especially in wilderness areas in the Salmon River Recovery Unit	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing. Additional funding is needed for this task as that is not project driven
Bull Trout (Salvelinus confluentus)	2	5.2.4	Conduct presence/absence surveys in previously uninventoried areas	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing. Some funding covered by other programs, and Tasks
Bull Trout (Salvelinus confluentus)	3	5.2.4	Evaluate food web interactions.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.2.4	Conduct watershed assessments	Unknown			Oregon Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.2.5	Determine range of temperature tolerances for bull trout life stages in different habitats	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.5	Identify suitable unoccupied habitat	Unknown			Alberta Conservation Association, Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 5.2.1

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	5.2.5	Evaluate water temperature as a limiting factor	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing. Some funding covered by other programs and/or Tasks
Bull Trout (Salvelinus confluentus)	3	5.2.5	Identify suitable unoccupied habitat in the Salmon River Recovery Unit	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	5.2.5	Assess restoration potential	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	See related tasks 1.3.1 and 1.3.4
Bull Trout (Salvelinus confluentus)	1	5.2.6	Determine the seasonal movement patterns of adult and subadult, migratory bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.2.6	Identify suitable unoccupied habitat	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	5.2.6	Identify suitable unoccupied habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related tasks 5.2.1, 5.2.3, 5.2.4

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Bull Trout (Salvelinus confluentus)	2	5.2.6	Devise and implement a monitoring strategy to track abundance, distribution, and trend of bull trout in the Salmon River Recovery Unit	Ongoing Current	FY 2009		Idaho Department of Fish and Game, Idaho Department of Environmental Quality, U.S. Fish and Wildlife Service	Acquisition: Other, Management: Population Monitoring	Contract	Money was provided to IDFG to insert pit tags into bull trout to give insight into the number and timing of fluvial bull trout moving through the Lemhi River and into Key Tributaries.
Bull Trout (Salvelinus confluentus)	3	5.2.6	Evaluate species interaction with native lake trout and northern pike	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost
Bull Trout (Salvelinus confluentus)	3	5.2.7	Evaluate food web interactions	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.2.7	Evaluate importance of contributing waters	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by other programs and/or Tasks
Bull Trout (Salvelinus confluentus)	2	5.3.1	Develop and evaluate basin management plans	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Northwest Power and Conservation Council, Confederated Tribes of the Umatilla Indian Reservation, Nez Perce Tribe, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.3.1	Evaluate the effectiveness of habitat management practices on State and private lands	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Office of Species Conservation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	5.3.1	Evaluate existing Best Management Practices to determine if they provide for conditions necessary for bull trout recovery	Unknown			Idaho Department of Lands, Idaho Soil Conservation Commission	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	5.3.1	Evaluate juvenile habitat in unstable systems	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost
Bull Trout (Salvelinus confluentus)	3	5.3.2	Mitigate impacts of oil and gas exploration	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.4.1	Research the effects of Ceratomyxa shasta on bull trout	Unknown			Oregon Department of Fish and Wildlife, Klamath Basin Bull Trout Working Group, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Geological Survey, Universities	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.4.1	Maintain fish health screening and transplant protocols.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	5.4.1	Monitor for effects of fish pathogens on Oregon bull trout populations. Follow ODFW pathology department protocols (in development) for handling and disposition of bull trout mortalities, e.g., submission to ODFW fish pathology laboratories for disease assessment.	Ongoing Current	FY 2008		Oregon Department of Fish and Wildlife, Portland General Electric Company, Warm Springs Power Enterprises, Deschutes River Bull Trout Recovery Unit Team	Research: Disease	Contract	Covered under existing programs. Work to begin in 2009 for testing ovarian and seminal fluids from post-spawning bull trout for potential donor stock for reintroduction to Clackamas River
Bull Trout (Salvelinus confluentus)	3	5.4.1	Research effects of whirling disease on bull trout	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Monitor for the presence of whirling disease in important areas
Bull Trout (Salvelinus confluentus)	3	5.4.1	Conduct wild fish health survey	Unknown			Alberta Sustainable Resource Development, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs
Bull Trout (Salvelinus confluentus)	3	5.4.1	Maintain fish health screening and transplant protocols to reduce risk of disease transmission.	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	5.4.1	Monitor for fish pathogens	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Ongoing, covered under existing programs.
Bull Trout (Salvelinus confluentus)	3	5.4.1	Maintain fish health screening and transplant protocols to reduce risk of disease transmission	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	5.4.2	Provide information to the public about whirling disease.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.4.2	Maintain fish health screening and transplant protocols	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.4.2	Monitor presence of Ceratomyxa shasta in bull trout habitat	Unknown			Klamath Basin Bull Trout Working Group	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	5.4.3	Assess fisheries and habitat management activities to reduce the risk of disease transmission	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.4.3	Monitor for effects of fish pathogens on bull trout populations.	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.4.3	Provide educational opportunities to the public about whirling disease	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.4.4	Survey for whirling disease	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.4.5	Monitor for effects of fish pathogens on Oregon bull trout populations	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.1	Evaluate the current and potential use of the Columbia River and lower mainstem portions of the Methow, Entiat, and Wenatchee Rivers.	Unknown			Washington Department of Fish and Wildlife, Chelan County Public Utilities District, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	5.5.1	Distribution surveys.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.1	Conduct bull trout spawning ground surveys in Desolation and Clear creeks.	Unknown			Oregon Department of Fish and Wildlife, Northwest Power and Conservation Council, Confederated Tribes of the Warm Springs Reservation, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.1	Determine life history requirements.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.1	Assess feasibility of reestablishing bull trout in the Clackamas and Santiam River basins	Ongoing Current	FY 2008		Oregon Department of Fish and Wildlife, Portland General Electric Company, U.S. Fish and Wildlife Service, U.S. Forest Service	Research: Reintroduction	Contract	Working with ODFW to determine estimate of spawner abundance in Metolius subbasin (Dechutes) to determine possibility of reintroduction into Clackamas River.

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Bull Trout (Salvelinus confluentus)	1	5.5.1	Determine life history requirements	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.1	Survey for bull trout presence/absence	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs.
Bull Trout (Salvelinus confluentus)	2	5.5.1	Conduct additional surveys focusing on migratory bull trout and bull trout habitat.	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.1	Review and update databases for bull trout distribution records	Unknown			Malheur Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Basic database has been established and incorporated into StreamNet (2002)
Bull Trout (Salvelinus confluentus)	3	5.5.1	Examine comment sections in passage logs for McNary Dam for documentation of bull trout or Dolly Varden observed	Unknown			U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	5.5.1	Research historical distribution and abundance	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.1	Continue to evaluate mountain lakes to identify potential bull trout habitats and distribution of fish stocked in lakes	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	5.5.1	Conduct periodic surveys in potential habitat currently accessible to bull trout, but where bull trout status is unknown or recolonization is anticipated. This could include Link Creek and Mill Creek.	Unknown			Deschutes River Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	5.5.1	Collect and analyze information on size, age, and maturation of bull trout to evaluate estimates of adult-size fish	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Conducted in conjunction with existing monitoring activities
Bull Trout (Salvelinus confluentus)	3	5.5.1	Evaluate the ability of Brownlee Reservoir to provide foraging, migrating, and overwintering habitat for bull trout.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Power Company, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.1	Conduct fish surveys	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	5.5.1	Research historical distribution and abundance	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.2	Investigate habitat conditions in Wet Creek during winter	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Repeat as include range of winter conditions.
Bull Trout (Salvelinus confluentus)	1	5.5.2	Identify and map bull trout spawning habitat	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs.
Bull Trout (Salvelinus confluentus)	1	5.5.2	Conduct regular surveys in potential habitat in the Malheur Core Area where bull trout status is unknown or recolonization is anticipated	Unknown			Malheur Bull Trout Recovery Unit Team, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Periodic re-surveys during life of recovery plan
Bull Trout (Salvelinus confluentus)	1	5.5.2	Identify potential local populations	Unknown			Washington Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.2	Investigate the relationship between bull trout and anadromous species	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	5.5.2	Finalize list of local populations and prioritize key watersheds for recovery actions	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost; see related tasks 5.2.1, 5.5.3, and 5.5.4
Bull Trout (Salvelinus confluentus)	2	5.5.2	Conduct additional field sampling to determine presence/absence of bull trout in the Clackamas and Santiam River basins	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.2	Investigate the relationship between bull trout and anadromous species.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.2	Conduct a comprehensive survey to evaluate bull trout presence and potentially suitable habitat in the Burnt River basin.	Unknown			Oregon Department of Fish and Wildlife, Watershed councils, Idaho Power Company, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.2	Map spawning habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related task 5.2.1
Bull Trout (Salvelinus confluentus)	3	5.5.2	Compile and synthesize historic information concerning bull trout presence, distribution, and abundance in the South Fork Payette River basin.	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	5.5.2	Investigate potential and feasibility for reintroducing bull trout to the Chelan Basin.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.2	Conduct regular surveys in potential habitat where bull trout status is unknown or re-colonization is anticipated	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Watershed councils, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.2	Determine movement and seasonality of use of different habitat types of adult and subadult migratory bull trout in multiple drainages, with emphasis on lakes, reservoirs, and mainstem rivers.	Unknown			Deschutes River Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	5.5.2	Conduct migrational studies for the Clearwater River Recovery Unit and coordinate with the Hells Canyon Complex, Grande Ronde, Imnaha, and Salmon River recovery units	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs partially covered under other research tasks
Bull Trout (Salvelinus confluentus)	3	5.5.2	Predation.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.3	Research populations in Bull and Sophie lakes	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Related to task 5.2.4

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	5.5.3	Habitat use.	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.3	Continue to survey for bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Nez Perce Tribe, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.3	Continue to survey for bull trout.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.3	Conduct physical and biological surveys in the Upper Willamette River core area to determine current abundance of populations and factors preventing or limiting productivity	Unknown			Oregon Department of Fish and Wildlife, Eugene Water and Electric Board, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Proposed biological assessment/ biological opinion study of habitat and other possible limiting factors (e.g., brook trout) above dams as part of passage study, task 1.2.1
Bull Trout (Salvelinus confluentus)	2	5.5.3	Establish abundance estimates	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Covered under existing programs.
Bull Trout (Salvelinus confluentus)	2	5.5.3	Complete watershed assessments in the North Fork Walla Walla and Touchet subbasins and identify extent of use by bull trout	Unknown			Washington Department of Natural Resources, Whitman College	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	5.5.3	Conduct comprehensive surveys for bull trout in the upper North Fork Payette River Core Area.	Unknown			Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.3	Determine life history requirements of resident and migratory bull trout local populations in the Malheur Core Area	Unknown			Oregon Department of Fish and Wildlife, Burns Paiute Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.3	Investigate potential use of the Okanogan River by bull trout, and investigate habitat suitability.	Unknown			Washington Department of Fish and Wildlife, Colville Tribe, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.3	Conduct studies of bull trout distribution, abundance, and life history characteristics in the Wildhorse River watershed and continue studies in the Indian Creek watershed.	Unknown			Idaho Department of Fish and Game, Idaho Power Company, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.3	Map spawning habitat	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related tasks 5.2.1, 5.5.2, and 5.5.4
Bull Trout (Salvelinus confluentus)	1	5.5.4	Determine consequences of genetic fragmentation/isolation due to human-made barriers	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.5.4	Conduct problem assessments for bull trout and identify site-specific threats that may be limiting recovery efforts.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	5.5.4	Conduct regular surveys in areas where bull trout status is unknown and those identified as having potential spawning and rearing habitat.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.4	Develop a strategy to establish new local populations in unoccupied areas identified as having potential spawning and rearing habitat.	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.4	Maintain a central database	Unknown			Oregon Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.4	Compare weak and strong populations.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.4	Evaluate resident populations	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related task 5.5.2 and 5.5.5
Bull Trout (Salvelinus confluentus)	3	5.5.4	Problem Assessments.	Unknown			Washington Department of Fish and Wildlife, Benton County, Oregon, Yakama Nation, Yakima County, Washington, Kittitas County, Washington, Tri-County Water Resource Agency, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	5.5.5	Conduct population surveys.	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.5.5	Compare characteristics of weak and strong populations of bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.5.5	Evaluate distribution, abundance, and habitat use by bull trout occupying the Saint Mary lakes	Unknown			Blackfeet Nation, National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management costs; see related task 5.5.2 and 5.5.4
Bull Trout (Salvelinus confluentus)	3	5.5.5	Evaluate food web interactions in drainages most affected by introduced fishes, reservoir operations, loss of anadromous species (prey base/nutrients), etc	Unknown			U.S. Bureau of Reclamation, U.S. Geological Survey	Work type not yet selected	Labor type not yet selected	Ongoing studies



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	5.5.5	Develop a process to disseminate all data collected within the Hells Canyon Complex Recovery Unit.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Agriculture, Oregon Department of Transportation, Watershed councils, Oregon Department of Forestry, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, Irrigation Districts, Oregon Department of Environmental Quality, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	3	5.5.6	Assess feasibility for using Patterson Lake bull trout to reestablish Methow River local populations.	Unknown			Washington Department of Fish and Wildlife, Okanogan County, Washington, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.1	Determine the mechanism by which migratory life forms undergo transition to resident forms	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.1	Determine the consequences of genetic fragmentation and isolation.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.1	Determine life history requirements of local resident and migratory bull trout populations	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	5.6.1	Delineate important migratory habitat	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, Klamath Basin Bull Trout Working Group, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.6.1	Determine the life history requirements of resident and migratory bull trout populations	Unknown			Idaho Department of Fish and Game, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Some funding covered by other programs and other Tasks
Bull Trout (Salvelinus confluentus)	2	5.6.1	Evaluate food web interactions in drainages most affected by introduced fishes, such as the North Fork John Day River and upper mainstem John Day River.	Unknown			Oregon Department of Fish and Wildlife, Confederated Tribes of the Warm Springs Reservation, U.S. Fish and Wildlife Service, U.S. Geological Survey, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	5.6.1	Conduct research on Cracker Lake Core Area	Unknown			National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.2	Evaluate the relationship between life history forms	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	5.6.2	Assess severity of threat due to hybridization with brook trout	Unknown			Oregon Department of Fish and Wildlife, Klamath Basin Bull Trout Working Group, U.S. Geological Survey, Biological Resources Division, U.S. Fish and Wildlife Service, U.S. Geological Survey, Universities	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	5.6.2	Investigate use of the mainstem Snake River by Imnaha-Snake Rivers bull trout.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.2	Investigate connectivity among bull trout populations in the Umatilla/Walla Walla Recovery Unit and the adjacent Columbia River	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	USCOE recommends starting with Walla Walla River, and then Umatilla
Bull Trout (Salvelinus confluentus)	2	5.6.2	Determine juvenile life history of bull trout in the Odell Lake Recovery Unit	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, covered under existing programs.
Bull Trout (Salvelinus confluentus)	3	5.6.2	Evaluate Glenss and Cosley lakes	Unknown			National Park Service, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management cost
Bull Trout (Salvelinus confluentus)	1	5.6.3	Determine the consequences of genetic fragmentation and isolation	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	5.6.3	Evaluate the population structure of bull trout in the recovery unit.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.6.3	Identify sources of bull trout mortality by life stage	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.4	Investigate use of the mainstem Snake River by bull trout from the Grande Ronde River subbasin	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	5.6.4	Evaluate basic life history characteristics.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.5	Evaluate the population structure of bull trout in the recovery unit	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.5	Evaluate survival rates (by life stage).	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	5.6.6	Evaluate basic life history characteristics	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	5.6.7	Evaluate survival rates (by life stage)	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6. 1. 1	Support local restoration/conservation efforts	Unknown			Oregon Department of Fish and Wildlife, Hood River Watershed Group, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6. 1. 2	Provide long-term habitat protection	Unknown			Hood River Watershed Group, Oregon Watershed Enhancement Board, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	6. 1. 3	Cooperate on Columbia issues	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Part of the existing funded efforts
Bull Trout (Salvelinus confluentus)	1	6. 1. 4	Cooperate with Tribes	Unknown			Oregon Department of Fish and Wildlife, Hood River Watershed Group, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Part of existing funded efforts

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Bull Trout (Salvelinus confluentus)	1	6. 1. 5	Identify and utilize all potential recovery resources	Unknown			Hood River Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Part of the USFWS mission
Bull Trout (Salvelinus confluentus)	3	6. 1. 6	Prepare and distribute educational materials	Unknown			Oregon Department of Fish and Wildlife, Hood River Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Should be able to use information from other units
Bull Trout (Salvelinus confluentus)	3	6. 1. 7	Facilitate media coverage	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Staff time will need to be expended
Bull Trout (Salvelinus confluentus)	1	6. 2. 1	Incorporate recovery tasks into FERC relicensing	Unknown			U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Applicable tasks may be used as terms and conditions or conservation recommendations
Bull Trout (Salvelinus confluentus)	1	6.1.1	Protect high quality habitats.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	6.1.1	Support collaborative efforts.	Unknown			Washington Department of Fish and Wildlife, Benton County, Oregon, Yakima County, Washington, Kittitas County, Washington, Tri-County Water Resource Agency, U.S. Bureau of Reclamation, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Funding needed for 5 years for cost share activities. Coordinate with 1.1.3

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Bull Trout (Salvelinus confluentus)	1	6.1.1	As appropriate, protect and restore private lands to benefit bull trout by using cooperative processes such as easements, land exchanges, Conservation Reserve Programs, and cost sharing	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	6.1.1	Provide long-term habitat protection.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6.1.1	Provide long-term habitat protection through purchase from willing sellers, conservation easements, management plans, land exchanges, etc..	Unknown			Oregon Department of Fish and Wildlife, Northwest Power and Conservation Council, Confederated Tribes of the Warm Springs Reservation, U.S. Bureau of Land Management, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing management concern, cost dependent on the extent of the action
Bull Trout (Salvelinus confluentus)	2	6.1.1	Support collaborative efforts.	Unknown			Washington Department of Fish and Wildlife, Kalispel Tribe, Spokane Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	6.1.1	Support watershed group restoration efforts	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing administrative and CWA costs; see related 1.1.2, 1.3.1, and 1.3.6
Bull Trout (Salvelinus confluentus)	2	6.1.1	Support collaborative efforts by local watershed groups	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6.1.1	Support watershed group restoration efforts	Unknown			Odell Lake Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Ongoing, covered under existing programs.
Bull Trout (Salvelinus confluentus)	2	6.1.1	Use the Lake Management Plan	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	2	6.1.1	Support collaborative efforts by local and regional (basin wide) watershed groups and others to accomplish site specific protection/restoration activities	Unknown			Resource conservation districts, Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Watershed councils, Umatilla-Walla Walla Bull Trout Recovery Unit Team, Walla Walla Watershed Total Maximum Daily Load Working Group	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	6.1.1	Support watershed group restoration efforts	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Watershed Advisory Groups, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and CWA costs
Bull Trout (Salvelinus confluentus)	2	6.1.1	Provide long-term habitat protection	Unknown			Oregon Department of Fish and Wildlife, Burns Paiute Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	6.1.1	Develop an outreach program to guide interaction with watershed councils and other entities in the basin. Disseminate information to a wide variety of interests groups and educational institutions via publications, world wide web, and presentations. Develop and implement processes to involve interested public by promoting public involvement in recovery projects, and providing for public review of conservation strategies.	Unknown			Deschutes River Bull Trout Recovery Unit Team, Deschutes Resources Conservancy	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.1	Encourage floodplain protection	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, Klamath Basin Bull Trout Working Group, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	6.1.1	Support collaborative efforts by local watershed groups to implement site specific protection and restoration activities to benefit bull trout.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Agriculture, Oregon Department of Transportation, Watershed councils, Oregon Department of Forestry, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, Irrigation Districts, Oregon Department of Environmental Quality, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	3	6.1.1	Support collaborative efforts by local watershed groups	Unknown			Washington Department of Fish and Wildlife, PacifiCorp, Pacific Power & Light Company, Yakama Nation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.1	Participate in efforts by local and regional (basinwide) watershed groups and others to accomplish site-specific protection and restoration activities	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Transportation, Watershed councils, Oregon Department of Environmental Quality, Oregon State Police, Eugene Water and Electric Board, Portland General Electric Company, Weyerhaeuser Corporation, Inc., Willamette Restoration Initiative, Oregon Water Resources Department, Willamette River Bull Trout Recovery Unit Team, U.S. Bureau of Land Management, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	McKenzie River watershed council has set of recommendations
Bull Trout (Salvelinus confluentus)	3	6.1.1	Coordinate bull trout recovery with listed anadromous fish species recovery in the Salmon River Recovery Unit	Unknown			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing admin. costs

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Bull Trout (Salvelinus confluentus)	3	6.1.1	Provide long-term protection of perennial stream reaches	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	1	6.1.2	Protect habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Watershed Advisory Groups, Plum Creek Timber Company, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	6.1.2	Protect habitat	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	6.1.2	Develop basin-wide habitat conservation efforts (e.g., Habitat Conservation Plans).	Unknown			Resource conservation districts, Washington Department of Natural Resources, Chelan County, Washington, Okanogan County, Washington, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	6.1.2	Provide long-term habitat protection	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Boise Cascade Corporation, Inc., Grand Ronde Model Watershed Program, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	This may be accomplished through purchase, conservation easements, management plans, and land exchanges
Bull Trout (Salvelinus confluentus)	2	6.1.2	Habitat protection.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Yakama Nation, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6.1.2	Protect habitat	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing through agency mandates
Bull Trout (Salvelinus confluentus)	2	6.1.2	Provide long-term habitat protection	Unknown			Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6.1.2	Provide long-term habitat protection	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Potential projects will be identified through tasks 1.2.3, 1.3.2, 1.3.4, and 1.3.5, 5.5.1, and 6.1.4

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Bull Trout (Salvelinus confluentus)	2	6.1.2	Work collaboratively with county and city land use planners to minimize urbanization impacts on bull trout recovery	Unknown			County governments, Idaho Department of Fish and Game, Idaho Watershed Advisory Groups, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	6.1.2	Use the proposed Coeur d'Alene Basin Plan	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	3	6.1.2	Work cooperatively with the Burns-Paiute tribal government to implement recovery actions	Unknown			Malheur Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.2	Develop an outreach program to share information	Unknown			Oregon Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Could be part of a statewide or regional outreach program.



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	6.1.2	Work cooperatively with neighboring states and governments.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Transportation, Idaho Department of Fish and Game, Oregon Department of Environmental Quality, Oregon State Police, Northwest Power and Conservation Council, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	6.1.2	Coordinate with other agencies, research scientists, and conservation organizations	Ongoing Current	FY 2008		Watershed councils, Willamette River Bull Trout Recovery Unit Team	Research: Population Surveys	Contract	Working with ODFW and USFS and others to monitor bull trout populations in upper McKenzie Basin to monitor trends in population abundance using surveys, traps, pit tags, etc.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	6.1.2	Continue cooperative efforts between states and among government agencies to implement recovery actions.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Agriculture, Oregon Department of Transportation, Watershed councils, Oregon Department of Forestry, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, State of Idaho, Irrigation Districts, Oregon Department of Environmental Quality, State of Oregon, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
							Conservation Service			
Bull Trout (Salvelinus confluentus)	1	6.1.3	Provide information to the public about habitat.	Unknown			Oregon Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	6.1.3	Secure funding and cooperation to implement recovery strategies	Unknown			Odell Lake Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing, covered under existing programs.
Bull Trout (Salvelinus confluentus)	2	6.1.3	Watershed groups, conservation districts, and landowners.	Unknown			Resource conservation districts, Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Benton County, Oregon, Yakima County, Washington, Kittitas County, Washington, Tri-County Water Resource Agency, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	6.1.3	Identify opportunities for habitat restoration and provide assistance to landowners	Unknown			County governments, Idaho Department of Fish and Game, Idaho Soil Conservation Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	6.1.3	Promote collaborative efforts by supporting existing local watershed working groups in developing and accomplishing site-specific protection and restoration activities	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Forestry, Klamath Tribe, Klamath Basin Bull Trout Working Group, U.S. Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, The Nature Conservancy, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	6.1.3	Work with watershed groups and landowners.	Unknown			Resource conservation districts, Chelan County, Washington, Okanogan County, Washington, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	6.1.3	Develop educational materials on bull trout and their habitat needs to provide to landowners and interested public parties	Unknown			Oregon Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.3	Coordinate recovery efforts	Unknown			Washington Department of Fish and Wildlife, Yakama Nation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	6.1.3	Work cooperatively with neighboring states and governments to implement recovery actions	Ongoing Current	FY 2008		Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Oregon Department of Transportation, Oregon Department of Environmental Quality, Oregon State Police, Northwest Power and Conservation Council, Confederated Tribes of the Umatilla Indian Reservation, Boise Cascade Corporation, Inc., Grand Ronde Model Watershed Program, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers	Research: Population Surveys	Contract	Work with Nez Perce Tribe, OWEB, ODFW, USFW, Grande Ronde Model Watersheet, and volunteers to fund continues survey of bull trout spawning areas in the Wallowa Mountains of NE Oregon.
Bull Trout (Salvelinus confluentus)	3	6.1.3	Conduct long-term monitoring of clean-up activities	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies

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Bull Trout (Salvelinus confluentus)	3	6.1.3	Work with county and city agencies to minimize bull trout impacts related to floodplain development	Unknown			City governments, County governments, Watershed councils, Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.3	Develop educational materials on bull trout and their habitat needs.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Agriculture, Oregon Department of Transportation, Oregon Department of Forestry, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Oregon Department of Environmental Quality, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, U.S. Bureau of Land Management, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	1	6.1.4	Work cooperatively with neighboring States and tribal government in watersheds that span interstate boundaries	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	6.1.4	Provide educational information to the public about bull trout habitat needs	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Grand Ronde Model Watershed Program	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	6.1.4	Identify and pursue opportunities to implement recovery strategies	Unknown			Malheur Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.4	Integrate watershed restoration efforts on public and private lands	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Watershed Advisory Groups, Plum Creek Timber Company, Walla Walla River Irrigation District, Idaho Soil Conservation Commission, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	6.1.5	Encourage floodplain protection	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	2	6.1.5	Integrate watershed analyses and assessments and restoration activities on public and private lands	Unknown			Watershed councils, Oregon Department of Environmental Quality, Malheur Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.5	Develop and distribute educational materials for public and landowners on bull trout and their habitat needs	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.1.6	Work with local communities on education projects	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6.1.7	Explore changes to local, State, and tribal plans to protect springs and non-fish bearing waters in the Walla Walla Core Area	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	6.1.8	Develop a cooperative agreement for instream water rights/minimum flows to protect flows to the Columbia River within the Walla Walla Core Area	Unknown			Washington Department of Ecology, Oregon Water Resources Department, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	6.2.1	Assess impacts to bull trout during hydropower relicensing.	Unknown			Chelan County Public Utilities District, Douglas County Public Utilities District, Grant County Public Utility District, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities



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Bull Trout (Salvelinus confluentus)	1	6.2.1	Monitor compliance with the Biological Opinion on the Federal Columbia River Power System	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing agency and administrative costs
Bull Trout (Salvelinus confluentus)	2	6.2.1	Coordinate all recovery actions with appropriate Alberta partners.	Unknown			Alberta Sustainable Resource Development, Blackfoot Nation, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	6.2.1	Ensure adequate temperature protection for bull trout at all life stages under the Idaho Water Quality Standards	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	CWA required costs
Bull Trout (Salvelinus confluentus)	2	6.2.1	Implement the Plum Creek Habitat Conservation Plan	Unknown			Plum Creek Timber Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	2	6.2.1	Identify opportunities to incorporate bull trout recovery actions into the relicensing process for hydroelectric projects in the Willamette Recovery Unit	Unknown			Oregon Department of Fish and Wildlife, Eugene Water and Electric Board, Portland General Electric Company, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Carmen-Smith; see also task 1.4.1
Bull Trout (Salvelinus confluentus)	2	6.2.1	Identify opportunities to incorporate bull trout recovery actions into hydro-relicensing projects in the Deschutes basin.	Unknown			Oregon Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	6.2.1	Participate in relicensing activities	Unknown			PacifiCorp, Pacific Power & Light Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	6.2.2	Implement Plum Creek Habitat Conservation Plan	Unknown			Plum Creek Timber Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing - 30-yr. agreement
Bull Trout (Salvelinus confluentus)	3	6.2.2	Coordinate bull trout recovery with listed anadromous fish species recovery.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	6.2.2	Identify and develop opportunities for collaboration between total maximum daily load planning (Clean Water Act) and bull trout recovery unit planning and implementation	Unknown			Oregon Department of Environmental Quality, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Part of total maximum daily load (TMDL) planning process

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Bull Trout (Salvelinus confluentus)	1	6.2.3	Coordinate all recovery actions with appropriate British Columbia partners.	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	6.2.4	Ensure coordination of ESA recovery implementation	Unknown			U.S. National Marine Fisheries Service (NOAA Fisheries), Bonneville Power Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing agency and administrative costs
Bull Trout (Salvelinus confluentus)	1	6.3.1	Fully implement State habitat protection laws	Unknown			Idaho Department of Lands	Work type not yet selected	Labor type not yet selected	Funding covered by another program or agencies
Bull Trout (Salvelinus confluentus)	1	6.3.1	Fully implement State habitat protection laws	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Montana Department of Natural Resources and Conservation	Work type not yet selected	Labor type not yet selected	Ongoing administrative and monitoring costs

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Bull Trout (Salvelinus confluentus)	2	6.3.1	Evaluate State habitat protection laws.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Washington Department of Ecology, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	6.3.1	Ensure implementation of Washington State habitat protection laws.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Washington Department of Ecology	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	6.3.1	Ensure restrictions on suction dredge mining in bull trout habitat are effective	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	6.3.1	Encourage floodplain protection	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, Glacier County, Montana, U.S. Bureau of Reclamation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	2	6.3.1	Avoid adverse effects to spawning and early rearing bull trout from suction dredging	Unknown			Idaho Department of Water Resources, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	6.3.1	Review and implement Forest and Fish standards	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	6.3.1	Evaluate the Oregon Forest Practices Act and rules relative to bull trout habitat requirements.	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	6.3.1	Continue management of U.S. Forest Service lands under Northwest Forest Plan and INFISH	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	6.3.2	Coordinate with State bull trout management plans	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	6.3.2	Evaluate compliance with current large scale and small mining regulations	Unknown			Idaho Department of Lands	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	6.3.2	Ensure full compliance monitoring of Forest and Fish Report standards.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	6.3.2	Ensure current mining regulations are effective	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Environmental Quality, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.

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Bull Trout (Salvelinus confluentus)	2	6.3.2	Encourage floodplain protection	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Kootenai Tribe of Idaho, Idaho Department of Environmental Quality, Idaho Department of Lands, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Plum Creek Timber Company	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	2	6.3.2	Review and modify emergency flood repair rules that impact bull trout	Unknown			Oregon Department of Fish and Wildlife, Washington Department of Fish and Wildlife, Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	6.3.2	Monitor and enforce Hydraulic Permit Applications in the State of Washington	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	2	6.3.3	Implement Federal land management plans that protect fish habitat (e.g., INFISH).	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities

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Bull Trout (Salvelinus confluentus)	3	6.3.3	Review land use plans in Oregon and modify where appropriate	Unknown			City governments, County governments, Oregon Department of Fish and Wildlife, Oregon Department of Land Conservation and Development, Confederated Tribes of the Umatilla Indian Reservation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	6.3.4	Develop, implement, and enforce water quality standards for surface water in the State of Washington.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	6.3.5	Increase monitoring and enforcement of Hydraulic Permit Applications in the State of Washington.	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	2	6.3.6	Develop and implement local habitat protection laws and ordinances.	Unknown			City governments, Chelan County, Washington, Okanogan County, Washington	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	7. 3. 1	Periodically review progress towards recovery goals and assess recovery task priorities	Unknown			Hood River Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	7.1.1	Develop an Implementation Plan	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	7.1.1	Develop an annual work plan to support implementation in the Malheur Recovery Unit	Unknown			Malheur Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	7.1.1	Develop a Participation Plan to support implementation in the recovery unit	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	7.1.1	Develop a Participation Plan to support implementation in the recovery unit.	Unknown			Deschutes River Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Covered under existing programs
Bull Trout (Salvelinus confluentus)	3	7.1.1	Develop a participation plan to support implementation in the recovery unit.	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	7.1.1	Develop a participation plan to support implementation in the recovery unit	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	3	7.1.1	Develop a participation plan	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Watershed Advisory Groups, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Coordinated with Task 5.1.1

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Bull Trout (Salvelinus confluentus)	3	7.1.1	Develop a participation plan to support implementation of recovery tasks in the Hells Canyon Complex Recovery Unit.	Unknown			Oregon Department of Fish and Wildlife, Oregon Department of Agriculture, Oregon Department of Transportation, Watershed councils, Oregon Department of Forestry, Idaho Department of Fish and Game, Idaho Power Company, Idaho Department of Environmental Quality, Irrigation Districts, Oregon Department of Environmental Quality, Baker County, Oregon, Union County, Oregon, Idaho Transportation Department, Washington County, Idaho, Adams County, Idaho, Malheur County, Oregon, Wallowa County, Oregon, Grant County, Oregon, Water diversion and Reservoir operators in Hells Canyon Complex area, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for plan development.

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Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress toward recovery goals and assess recovery task priorities.	Unknown			U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress towards recovery goals and assess recovery task priorities.	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities
Bull Trout (Salvelinus confluentus)	3	7.3.1	Conduct annual meetings	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Coeur d'Alene Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Costs covered under 7.3.1
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress toward recovery goals and assess recovery task priorities	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically reassess priorities	Unknown			Odell Lake Bull Trout Recovery Unit Team	Work type not yet selected	Labor type not yet selected	Reassess periodically, costs covered under existing programs.
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress towards recovery goals and assess recovery task priorities	Unknown			Alberta Sustainable Resource Development, Blackfeet Nation, National Park Service, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	No added cost
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically assess progress toward recovery goals and assess recovery task priorities	Unknown			Umatilla-Walla Walla Bull Trout Recovery Unit Team, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Every 5 years

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Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress toward recovery goals and assess recovery task priorities	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Watershed Advisory Groups, Plum Creek Timber Company, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress toward recovery goals and assess recovery task priorities	Unknown			Idaho Department of Fish and Game, Shoshone-Bannock Tribe, Soil and Water Conservation Districts, Nez Perce Tribe, U.S. Bureau of Land Management, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Conduct every 5 years
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically assess progress and determine needs for changes in recovery unit plan	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress towards recovery goals and assess recovery task	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	7.3.1	Periodically review progress toward recovery goals and assess recovery task priorities	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Currently being implemented as part of normal agency responsibilities under existing authorities.
Bull Trout (Salvelinus confluentus)	3	7.3.2	Periodically assess the priority of actions in the context of how to emphasize actions in core areas	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	AC1.1.1	Identify unstable and problem roads causing fine sediment delivery	Unknown			Washington Department of Transportation, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities; costs associated with non-agency lands
Bull Trout (Salvelinus confluentus)	3	AC1.1.10	Evaluate the need to install additional permanent stream gauging stations	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, U.S. Geological Survey	Work type not yet selected	Labor type not yet selected	Costs only for the study
Bull Trout (Salvelinus confluentus)	1	AC1.1.11	Identify sources and locations of groundwater infiltration to streams	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, Asotin County Conservation District, U.S. Geological Survey, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	AC1.1.12	Protect groundwater sources to maintain base flows in Asotin Creek	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, Asotin County Conservation District, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.1.13	Identify factors contributing to elevated stream temperatures	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.1.2	Relocate riparian roads out of the floodplain	Unknown			Washington Department of Transportation, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities; costs unknown as each road may require different solutions
Bull Trout (Salvelinus confluentus)	1	AC1.1.3	Find and eliminate fine sediment sources from historical roads	Unknown			Washington Department of Transportation, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities; costs unknown as each road may require different solutions
Bull Trout (Salvelinus confluentus)	1	AC1.1.4	Improve routine road maintenance practices	Unknown			Washington Department of Transportation, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.1.5	Restore stream channels to appropriate channel type	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	1	AC1.1.6	Reduce sediment inputs from recreational-based channel damage	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.1.7	Develop and install educational watershed protection signs in riparian areas of State and Federal campgrounds	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	AC1.1.8	Review and act on recommendations generated from sediment monitoring plans	Unknown			Washington Department of Fish and Wildlife, Nez Perce Tribe, Asotin County Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.1.9	Assess water quality and remedy impacts from individual residences and communities	Unknown			Washington Department of Ecology, Asotin County Conservation District	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.2.1	Remove permanent and seasonal barriers to bull trout migration	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.2.2	Eliminate barriers to bull trout passage at remnant power and irrigation dams	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	AC1.2.3	Conduct a complete inventory of surface water diversions	Unknown			Washington Department of Fish and Wildlife, Washington Department of Natural Resources, Washington Department of Ecology, Asotin County Conservation District	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	AC1.3.1	Conduct watershed analyses to evaluate past, current, and future bull trout production potential	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Focus on critical habitat and associated waters
Bull Trout (Salvelinus confluentus)	1	AC1.3.10	Evaluate bridge crossings and assess options to modify structures to protect migration corridors	Unknown			Washington Department of Transportation, Asotin County Conservation District, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	AC1.3.11	Incorporate non-intrusive flood repair strategies	Unknown			Washington Department of Transportation, Asotin County Conservation District, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.12	Promote programs to restore and protect floodplain and channel function	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities



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Bull Trout (Salvelinus confluentus)	1	AC1.3.13	Identify and restore aggrading stream channels to restore flow and reduce subsurface flows and increase channel stability	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, Asotin County Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Surveys only
Bull Trout (Salvelinus confluentus)	2	AC1.3.14	Investigate land acquisition as an opportunity to protect bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.15	Reduce stream temperatures by enhancing riparian areas	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, Asotin County Conservation District, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.16	Reduce impacts of livestock on streams and riparian areas	Unknown			Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	AC1.3.17	Minimize further development in floodplains	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.2	Identify streambanks susceptible to excessive failure and mass wasting	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

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Bull Trout (Salvelinus confluentus)	1	AC1.3.3	Stabilize streambeds and banks	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.4	Protect riparian and channel habitat at managed and unmanaged campgrounds, trail systems, and recreation sites	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	AC1.3.5	Develop and implement comprehensive livestock grazing management plans	Unknown			Asotin County Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.6	Identify and restore riparian vegetation in priority occupied and unoccupied bull trout habitat	Unknown			Washington Department of Fish and Wildlife, Asotin County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.8	Reduce fine sediment inputs from agricultural land	Unknown			Washington Department of Ecology, Asotin County Conservation District, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.3.9	Maintain roadless conditions in sensitive bull trout watersheds	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.4.1	Implement bull trout identification protocol at juvenile and adult fishways at Lower Monumental, Little Goose, and Lower Granite Dams	Unknown			U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

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Bull Trout (Salvelinus confluentus)	1	AC1.4.2	Review existing bull trout information and determine limiting factors affecting bull trout at Lower Monumental, Little Goose, and Lower Granite Dams	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC1.4.3	Identify study needs related to habitats for foraging, migrating, and overwintering in Snake River reservoirs	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	AC1.5.1	Assess effects of upland activities and current upland conditions on stream and riparian function	Unknown			Asotin County Conservation District, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	AC1.5.2	Assess current and historical effects of upland management on occupied bull trout streams	Unknown			Asotin County Conservation District, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	AC1.5.3	Investigate use of prescribed fire	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	AC2.1.1	Evaluate potential impacts of hatchery rainbow trout	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	AC2.4.1	Evaluate impacts of nonnative fish species on bull trout	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	AC2.6.1	Evaluate potential impacts from fish competition	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC3.2.1	Reduce incidental harvest by educating recreational anglers and increasing awareness of bull trout population status	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

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Bull Trout (Salvelinus confluentus)	1	AC3.2.2	Summarize existing bull trout bycatch data and implement angler interviews that target bull trout bycatch	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC3.2.3	Increase enforcement patrols during spawning periods	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Increasing need as migratory bull trout increase in abundance and distribution
Bull Trout (Salvelinus confluentus)	2	AC3.2.4	Minimize incidental bull trout mortality from angler-related hooking and handling	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Educational materials at recreation sites; repeat in year 6
Bull Trout (Salvelinus confluentus)	2	AC3.2.5	Use, review, and revise, where necessary, current management goals for bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC3.4.1	Continue bull trout harvest closure in the Snake River Washington Recovery Unit	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	AC4.1.1	Conduct genetic inventory	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	AC4.1.2	Evaluate and describe the genetic structure of bull trout in local populations	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	AC4.3.1	Perform a genetic cost-to-benefit analysis for reintroduction of bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Covered under task 7.3.1
Bull Trout (Salvelinus confluentus)	1	AC5.2.1	Conduct presence and absence surveys to fully describe the distribution of juvenile, subadult, and adult bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	AC5.2.3	Conduct feasibility studies for artificial propagation and/or translocation and implement programs	Unknown			Washington Department of Fish and Wildlife, Nez Perce Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	AC6.1.1	Identify partnership opportunities	Unknown			Nez Perce Tribe, Asotin County Conservation District, Bonneville Power Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs covered by task 7.3.1
Bull Trout (Salvelinus confluentus)	3	AC7.3.1	Establish a Snake River Washington Recovery Unit bull trout coordinator	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Permanent position for entire recovery unit; see footnote below
Bull Trout (Salvelinus confluentus)	2	AC7.3.2	Periodically review progress toward recovery goals and assess recovery task priorities	Unknown			Washington Department of Fish and Wildlife, Nez Perce Tribe, Asotin County Conservation District, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	BR1.1.1	Reduce sediment production from roads.	Unknown			Idaho Department of Environmental Quality, Idaho Transportation Department, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Coordinate with task 1.1.2.
Bull Trout (Salvelinus confluentus)	1	BR1.1.2	Evaluate and improve drainage from existing roads.	Unknown			Idaho Department of Environmental Quality, Idaho Transportation Department, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Coordinate with task 1.1.1.
Bull Trout (Salvelinus confluentus)	3	BR1.1.3	Assess the risk of negative effects of historic mine tailings on bull trout, and implement actions to eliminate or reduce them, if necessary.	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, in part. Cost estimate for assessment.

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Bull Trout (Salvelinus confluentus)	1	BR1.2.1	Inventory culverts to identify those inhibiting fish passage, and develop a program with schedules for their replacement or modification to improve fish passage.	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	BR1.2.2	Evaluate bull trout use of the fish ladder at Atlanta Dam.	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	BR1.2.3	Install screens on the irrigation diversions in Big Smokey and Willow creeks in the Anderson Ranch Core Area.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Diversion Operators in SW Idaho, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	BR1.2.4	Evaluate possible barriers to fish passage in the Mores Creek watershed and improve passage where necessary.	Unknown			Idaho Department of Fish and Game, Idaho Transportation Department, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for evaluation of barriers.
Bull Trout (Salvelinus confluentus)	2	BR1.3.1	Restrict suction dredge mining in bull trout spawning and rearing habitat.	Unknown			Idaho Department of Lands, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	No additional costs expected to existing permit system.
Bull Trout (Salvelinus confluentus)	2	BR1.3.2	Identify areas where livestock grazing has negatively affected riparian and aquatic habitats, and implement actions to restore and improve stream and riparian habitat.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimate for identifying areas affected by grazing.
Bull Trout (Salvelinus confluentus)	1	BR1.4.1	Establish conservation pools in Anderson Ranch Reservoir and Arrowrock Reservoir.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing, see USFWS 1999; Rieber, USBR, in litt. 2001.

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Bull Trout (Salvelinus confluentus)	1	BR1.4.2	Identify and implement operational actions and facilities necessary to prevent or reduce fish passage through dams.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing, see USFWS 1999, 2001; Rieber, USBR, in litt. 2001.
Bull Trout (Salvelinus confluentus)	1	BR2.4.1	Evaluate various methods to reduce the abundance of brook trout.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	1	BR2.5.1	Reduce competition with brook trout where they overlap with bull trout, especially in spawning and rearing habitat.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Task dependent on results of task 2.4.1.
Bull Trout (Salvelinus confluentus)	3	BR3.2.1	Continue and expand public education programs for fish identification, angling regulations, reasons for protective regulations on bull trout, and fish handling practices.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, cost estimate for production of educational materials.
Bull Trout (Salvelinus confluentus)	3	BR3.2.2	Continue enforcement of current fishing regulations and increase patrols.	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	3	BR3.4.1	Investigate compliance with fishing regulations and opportunities to benefit bull trout.	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing, coordinate with tasks 3.2.1 and 3.2.2.

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Bull Trout (Salvelinus confluentus)	3	BR4.1.1	Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout (see Chapter 1 narrative).	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See Chapter 1.
Bull Trout (Salvelinus confluentus)	3	BR4.1.2	Describe and monitor genetic and phenotypic characteristics of bull trout in core areas, and incorporate information into management strategies.	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for the collection of tissue during existing surveys.
Bull Trout (Salvelinus confluentus)	1	BR4.2.1	Prevent the establishment of barriers that may inhibit the movement of bull trout within the Boise River Recovery Subunit.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	2	BR5.5.1	Continue studies on bull trout distribution, abundance, life histories, and factors affecting them.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	2	BR5.5.2	Continue studies on the distribution, status, and life history of bull trout in the Mores Creek watershed.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Reclamation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.



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Bull Trout (Salvelinus confluentus)	2	BR5.5.3	Identify unoccupied areas that may be suitable for bull trout spawning and rearing in the Lucky Peak Core Area and develop a strategy to establish additional local populations.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Coordinate with task 5.5.2.
Bull Trout (Salvelinus confluentus)	1	FH 1. 1. 1	Reduce general sediment sources	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Montana Department of Environmental Quality, Plum Creek Timber Company, Flathead Basin Commission, U.S. Department of Transportation, Bonneville Power Administration, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative/planning costs <sup>1</sup>

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	FH 1. 1. 2	Address forest road maintenance and hotspots	Unknown			County governments, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs; see task 6.2.7
Bull Trout (Salvelinus confluentus)	2	FH 1. 1. 3	Improve maintenance along transportation corridors	Unknown			County governments, Montana Department of Transportation, Burlington Northern and Santa Fe Railway, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing/ maintenance costs
Bull Trout (Salvelinus confluentus)	2	FH 1. 1. 4	Modify problem reaches of trail system	Unknown			Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing/ maintenance costs
Bull Trout (Salvelinus confluentus)	2	FH 1. 1. 5	Monitor existing and future coal mine development in British Columbia	Unknown			British Columbia Ministry of Water, Land, and Air Protection, Montana Department of Environmental Quality, Flathead Basin Commission, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing monitoring costs
Bull Trout (Salvelinus confluentus)	3	FH 1. 1. 6	Minimize recreational development in bull trout spawning and rearing habitat	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Routine land management planning costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 1. 1. 7	Assess nutrient input and increase water quality monitoring and remediation	Unknown			Montana Department of Environmental Quality, Flathead Basin Commission, Flathead Lake Biological Station, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	CWA required
Bull Trout (Salvelinus confluentus)	1	FH 1. 1. 8	Implement water quality regulations	Unknown			County governments, Montana Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing/ administrative planning costs
Bull Trout (Salvelinus confluentus)	2	FH 1. 2. 1	Eliminate entrainment in diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 1. 2. 2	Provide fish passage around diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	FH 1. 2. 3	Eliminate culvert barriers	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Department of Transportation, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 1. 2. 4	Improve instream flows	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 1. 3. 1	Conduct watershed problem assessments	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing management costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 1. 3. 2	Revegetate denuded riparian areas	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	FH 1. 3. 3	Improve grazing practices	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	FH 1. 3. 4	Restore stream channels	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	FH 1. 3. 5	Improve instream habitat	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	FH 1. 3. 6	Minimize potential stream channel degradation	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Montana Department of Environmental Quality, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Administrative costs associated with land use planning
Bull Trout (Salvelinus confluentus)	2	FH 1. 4. 1	Reduce reservoir operational impacts	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, City of East Hope, Idaho, Pennsylvania Power and Light of Montana, Flathead Basin Commission, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 1. 4. 2	Provide instream flow downstream of dams	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 1. 4. 3	Evaluate selective withdrawal at Hungry Horse Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Priority task 1.4.2
Bull Trout (Salvelinus confluentus)	3	FH 1. 4. 4	Avoid gas supersaturation from Hungry Horse Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Environmental Quality, U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 1. 4. 5	Evaluate impact of dam operations on bull trout predators	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Bureau of Reclamation, Bonneville Power Administration	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	FH 1. 5. 1	Monitor fire effects and mitigate effects where necessary	Unknown			Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 2. 1. 1	Upgrade fish hatchery practices	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	FH 2. 1. 2	Regulate private fish ponds	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	FH 2. 1. 3	Encourage development of commercial sources of westslope cutthroat trout	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	FH 2. 2. 1	Optimize enforcement of laws and policies that prohibit unauthorized fish transplant and stocking	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	1	FH 2. 3. 1	Discourage unauthorized fish introductions	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	FH 2. 3. 2	Develop bull trout education program	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Part of statewide program

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 2. 4. 1	Develop protocols for suppressing nonnative fish	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See task 2.4.1 for Upper Clark Fork Recovery Subunit
Bull Trout (Salvelinus confluentus)	2	FH 2. 4. 2	Discourage illegally introduced sport fish populations	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	FH 2. 5. 1	Experimentally remove established brook trout populations	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	FH 2. 5. 2	Suppress brown trout in Mill Creek	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 2. 6. 1	Reduce/minimize impacts of northern pike	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	FH 2. 6. 2	Consider installing barriers to hinder spread of nonnative fish	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	FH 3. 1. 1	Implement adaptive management of native fishes in Flathead Lake and Flathead River	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	Ongoing, new 10-year plan
Bull Trout (Salvelinus confluentus)	1	FH 3. 1. 2	Develop and implement Swan Lake management strategy	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	FH 3. 1. 3	Aggressively protect remaining native species complexes	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park	Work type not yet selected	Labor type not yet selected	Ongoing fish management plans
Bull Trout (Salvelinus confluentus)	2	FH 3. 2. 1	Minimize unintentional bull trout mortality	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Glacier National Park	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	FH 3. 2. 2	Evaluate enforcement of angling regulations and oversee scientific research	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park	Work type not yet selected	Labor type not yet selected	See task 3.2.2 of Upper Clark Fork Recovery Subunit
Bull Trout (Salvelinus confluentus)	2	FH 3. 2. 3	Implement angler education efforts	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park	Work type not yet selected	Labor type not yet selected	See related task 3.2.2

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 3. 2. 4	Solicit information from commercial guides	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	Routine management costs
Bull Trout (Salvelinus confluentus)	3	FH 3. 2. 5	Coordinate with British Columbia fisheries monitoring and management authorities	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	FH 3. 3. 1	Evaluate site-specific conflicts with introduced sport fish	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 3. 4. 1	Evaluate opportunities for regulated bull trout fisheries	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management/ regulations costs
Bull Trout (Salvelinus confluentus)	1	FH 4. 1. 1	Conduct genetic inventory	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task in Chapter 1 of Recovery Plan

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	FH 5. 1. 1	Develop standardized monitoring procedures	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	FH 5. 2. 1	Identify suitable unoccupied habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Related to task 5.1.1
Bull Trout (Salvelinus confluentus)	3	FH 5. 2. 2	Map spawning habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See costs associated with tasks 5.1.1 and 5.5.1
Bull Trout (Salvelinus confluentus)	3	FH 5. 4. 1	Monitor fish health in private hatcheries	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing/ fish health costs
Bull Trout (Salvelinus confluentus)	2	FH 5. 4. 2	Prevent spread of fish pathogens	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park	Work type not yet selected	Labor type not yet selected	Ongoing fish management and health costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 5. 5. 1	Increase monitoring of adfluvial bull trout populations in smaller lakes	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park	Work type not yet selected	Labor type not yet selected	See task 3.1.3
Bull Trout (Salvelinus confluentus)	3	FH 5. 5. 2	Evaluate bull trout population and habitat in Tally Lake watershed to determine potential core area status.	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	FH 5. 6. 1	Investigate status of migratory and resident life history forms of bull trout	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See costs associated with tasks 5.1.1 and 5.5.1
Bull Trout (Salvelinus confluentus)	2	FH 5. 6. 2	Assess hybridization threat with brook trout in the Swan River drainage	Unknown			Montana Department of Fish, Wildlife and Parks, University of Montana, Plum Creek Timber Company, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	FH 6. 1. 1	Support watershed group restoration efforts	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Montana Department of Environmental Quality, Pennsylvania Power and Light of Montana, Plum Creek Timber Company, Flathead Basin Commission, Flathead Lake Biological Station, U.S. Bureau of Reclamation, U.S. Department of Transportation, Bonneville Power Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs, CWA costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	FH 6. 1. 2	Protect habitat	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, Glacier National Park, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	FH 6. 1. 3	Support habitat protection and monitoring in British Columbia	Unknown			Montana Department of Fish, Wildlife and Parks, British Columbia Ministry of Water, Land, and Air Protection, Bonneville Power Administration, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	FH 6. 2. 1	Monitor compliance with Kerr Dam FERC Order and Biological Opinion	Unknown			Confederated Salish and Koonetai Tribes, Pennsylvania Power and Light of Montana, U.S. Bureau of Indian Affairs, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing routine administrative costs



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	FH 6. 2. 2	Minimize impacts of Bigford Dam through Federal Energy Regulatory Commission relicensing process	Unknown			Montana Department of Fish, Wildlife and Parks, PacifiCorp, Pacific Power & Light Company, Montana Department of Environmental Quality, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	FH 6. 2. 3	Monitor compliance with Federal Columbia River Power System Biological Opinion for Hungry Horse Dam	Unknown			U.S. Bureau of Reclamation, Bonneville Power Administration, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	FH 6. 2. 4	Implement Plum Creek HCP	Ongoing Current	FY 2000 - FY 2004		Plum Creek Timber Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing; see related tasks for Upper and Lower Clark Fork Recovery Subunits
Bull Trout (Salvelinus confluentus)	2	FH 6. 3. 1	Fully implement State and Tribal habitat protection laws	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Plum Creek Timber Company, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing/ administrative and monitoring costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	FH 6. 3. 2	Encourage floodplain protection	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Flathead Basin Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing, agency management and planning costs
Bull Trout (Salvelinus confluentus)	3	LCF 1. 1. 7	Reduce nutrient input	Unknown			Idaho Department of Environmental Quality, Confederated Salish and Koonetai Tribes, Montana Department of Environmental Quality, U.S. Environmental Protection Agency, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing operations/ administrative costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 1. 1. 1	Reduce general sediment sources	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Confederated Salish and Koonetai Tribes, Idaho Watershed Advisory Groups, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, U.S. Department of Transportation, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	LCF 1. 1. 2	Upgrade problem roads	Unknown			County governments, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 1. 1. 3	Clean up mine waste	Unknown			Idaho Department of Environmental Quality, Idaho Watershed Advisory Groups, Montana Department of Environmental Quality, U.S. Environmental Protection Agency, U.S. Forest Service, Private landowners	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	3	LCF 1. 1. 4	Evaluate and, if necessary, mitigate impacts from Rock Creek Mine	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Montana Department of Environmental Quality, Sterling Mining Co., U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, administrative costs
Bull Trout (Salvelinus confluentus)	1	LCF 1. 1. 5	Implement ARCO mitigation on Flathead Indian Reservation	Unknown			Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	LCF 1. 1. 6	Assess and mitigate nonpoint thermal pollution	Unknown			Idaho Department of Environmental Quality, Confederated Salish and Koonetai Tribes, Montana Department of Environmental Quality, U.S. Environmental Protection Agency, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 1. 1. 8	Implement water quality regulations	Unknown			County governments, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	CWA required costs
Bull Trout (Salvelinus confluentus)	3	LCF 1. 1. 9	Minimize recreational development in bull trout spawning and rearing habitat	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Lands, Montana Department of Natural Resources and Conservation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing operations/ administrative costs
Bull Trout (Salvelinus confluentus)	1	LCF 1. 2. 1	Eliminate entrainment in diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Water Resources, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 1. 2. 2	Provide fish passage around diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Water Resources, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Avista Corp. [formerly Washington Water Power], City of East Hope, Idaho, U.S. Fish and Wildlife Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	LCF 1. 2. 3	Eliminate culvert barriers	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	LCF 1. 2. 4	Mitigate Trestle Creek flume impacts	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 1. 2. 5	Improve instream flows	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Water Resource Board, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	LCF 1. 2. 6	Consider fish salvage, as needed	Unknown			Montana Department of Fish, Wildlife and Parks, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	LCF 1. 3. 1	Conduct watershed problem assessments	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing management/ administrative costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 1. 3. 2	Revegetate denuded riparian areas	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Lands, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], Trout Unlimited, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	45 years through FERC license
Bull Trout (Salvelinus confluentus)	2	LCF 1. 3. 3	Improve grazing practices	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative/planning costs



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 1. 3. 4	Restore stream channels	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], Trout Unlimited, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	See related task 1.1.3
Bull Trout (Salvelinus confluentus)	2	LCF 1. 3. 5	Improve instream habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Lands, Montana Department of Natural Resources and Conservation, Avista Corp. [formerly Washington Water Power], Bonneville Power Administration, U.S. Federal Energy Regulatory Commission, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing; see related task 1.1.3

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 1. 3. 6	Minimize potential stream channel degradation	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Transportation Department, Idaho Watershed Advisory Groups, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Montana Department of Environmental Quality, Idaho Bureau of Disaster Services, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing/ management /administrative costs
Bull Trout (Salvelinus confluentus)	3	LCF 1. 3. 7	Manage beaver to function naturally in maintaining wetlands	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	LCF 1. 4. 1	Evaluate and restore upstream fish passage at mainstem Clark Fork and Pend Oreille River dams	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], Pennsylvania Power and Light of Montana, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing - 45 years through FERC license

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 1. 4. 2	Provide safe passage downstream through dams and reservoirs	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], Pennsylvania Power and Light of Montana, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing - included in task 1.4.1 above
Bull Trout (Salvelinus confluentus)	1	LCF 1. 4. 3	Reduce reservoir operational impacts	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Environmental Quality, Confederated Salish and Koonetai Tribes, Montana Department of Environmental Quality, Avista Corp. [formerly Washington Water Power], Pennsylvania Power and Light of Montana, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing - included in task 1.4.1 above
Bull Trout (Salvelinus confluentus)	2	LCF 1. 4. 4	Research and recommend instream flows and minimum pools on the Flathead Agency Irrigation District	Unknown			Confederated Salish and Koonetai Tribes, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Section 7 consultation

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 1. 4. 5	Provide instream flow downstream of dams	Unknown			Idaho Department of Fish and Game, Idaho Water Resource Board, Idaho Department of Environmental Quality, Avista Corp. [formerly Washington Water Power], Pennsylvania Power and Light of Montana, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	45 years through FERC license
Bull Trout (Salvelinus confluentus)	2	LCF 1. 4. 6	Research and recommend instream flow in lower Flathead River	Unknown			Confederated Salish and Koonetai Tribes, U.S. Federal Energy Regulatory Commission	Work type not yet selected	Labor type not yet selected	Ongoing/part of task 1.4.5
Bull Trout (Salvelinus confluentus)	2	LCF 1. 4. 7	Maintain passage through alluvial fans in Lake Pend Oreille	Unknown			Idaho Department of Fish and Game, Avista Corp. [formerly Washington Water Power], U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	LCF 1. 4. 8	Assess impact of Lake Pend Oreille water levels on kokanee salmon	Unknown			Idaho Department of Fish and Game, Bonneville Power Administration, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 1. 4. 9	Avoid gas supersaturation	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Confederated Salish and Koonetai Tribes, Montana Department of Environmental Quality, Avista Corp. [formerly Washington Water Power], Montana Power Company, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing -approx. \$10.20M permanent fix at Cabinet Gorge and Noxon Dams
Bull Trout (Salvelinus confluentus)	2	LCF 1. 5. 1	Monitor fire effects and mitigate effects where necessary	Unknown			Idaho Department of Lands, Montana Department of Natural Resources and Conservation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing/ routine administrative costs
Bull Trout (Salvelinus confluentus)	3	LCF 2. 1. 1	Review fish stocking programs	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	LCF 2. 1. 2	Regulate private fish ponds	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	Ongoing/ routine administrative costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 2. 1. 3	Encourage development of commercial sources of westslope cutthroat trout	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	LCF 2. 2. 1	Optimize enforcement of laws and policies that prohibit unauthorized fish transplant and stocking	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	LCF 2. 3. 1	Discourage unauthorized fish introductions	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation, Avista Corp. [formerly Washington Water Power], Trout Unlimited, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	LCF 2. 3. 2	Develop bull trout education program	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], Trout Unlimited, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing/part of statewide program

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	LCF 2. 4. 1	Assess superimposition of kokanee salmon and brown trout redds on bull trout redds	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	LCF 2. 4. 2	Evaluate northern pike and smallmouth bass in lower Flathead River	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fishery management program cost
Bull Trout (Salvelinus confluentus)	2	LCF 2. 5. 1	Experimentally remove established brook trout populations	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	LCF 2. 5. 2	Suppress lake trout in Lake Pend Oreille	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	LCF 2. 5. 3	Suppress brown trout in Bull River	Unknown			Montana Department of Fish, Wildlife and Parks, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 3. 1. 1	Implement adaptive management of native fish management plans	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	LCF 3. 1. 2	Implement Avista Native Salmonid Restoration Plan	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	LCF 3. 2. 1	Minimize unintentional mortality of bull trout	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	Ongoing routine fish management costs
Bull Trout (Salvelinus confluentus)	2	LCF 3. 2. 2	Evaluate enforcement of angling regulations and oversee scientific research	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	45 years through FERC license



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 3. 2. 3	Implement angler education efforts	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], Trout Unlimited, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Partially included in task 3.2.2 above
Bull Trout (Salvelinus confluentus)	3	LCF 3. 2. 4	Solicit information from commercial guides	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Routine administrative planning costs
Bull Trout (Salvelinus confluentus)	1	LCF 3. 3. 1	Evaluate site-specific conflicts with introduced sport fish	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing - 5 years through FERC license
Bull Trout (Salvelinus confluentus)	2	LCF 3. 3. 2	Regulate mainstem reservoirs to inhibit reproduction of nonnative fish	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing through FERC license

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 3. 4. 1	Evaluate opportunities for regulated bull trout fisheries	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 3.2.2
Bull Trout (Salvelinus confluentus)	2	LCF 4. 1. 1	Conduct genetic inventory	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, University of Montana, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task in Chapter 1 of Recovery Plan
Bull Trout (Salvelinus confluentus)	1	LCF 5. 2. 1	Identify suitable unoccupied habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	LCF 5. 2. 2	Evaluate habitat suitability (i.e., thermal conditions) in reservoirs	Unknown			Montana Department of Fish, Wildlife and Parks, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 1.4.1

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 5. 2. 3	Investigate bull trout movement and distribution	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Costs part of task 1.4.1
Bull Trout (Salvelinus confluentus)	3	LCF 5. 2. 4	Coordinate monitoring of fish movement	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See costs associated with task 1.4.1
Bull Trout (Salvelinus confluentus)	2	LCF 5. 2. 5	Research origin of bull trout that migrate to Cabinet Gorge Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related tasks 5.2.3 and 1.4.1.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	LCF 5. 2. 6	Evaluate feasibility of maintaining fluvial/resident populations	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See costs associated with task 1.4.1
Bull Trout (Salvelinus confluentus)	3	LCF 5. 2. 7	Map spawning habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes	Work type not yet selected	Labor type not yet selected	Costs part of tasks 1.4.1 and 5.2.3
Bull Trout (Salvelinus confluentus)	2	LCF 5. 3. 1	Evaluate efficacy of trap/transport project	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 1.4.1
Bull Trout (Salvelinus confluentus)	3	LCF 5. 4. 1	Monitor fish health in private hatcheries	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	LCF 5. 4. 2	Prevent spread of fish pathogens	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Confederated Salish and Koonetai Tribes, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 5. 5. 1	Evaluate Middle Fork East River	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	LCF 6. 1. 1	Support watershed group restoration efforts	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Confederated Salish and Koonetai Tribes, Idaho Watershed Advisory Groups, Montana Department of Natural Resources and Conservation, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Meets CWA requirements

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 6. 1. 2	Protect habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Lands, Confederated Salish and Koonetai Tribes, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	45 years through FERC license
Bull Trout (Salvelinus confluentus)	1	LCF 6. 2. 1	Monitor compliance with Avista FERC Settlement Agreement	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Montana Department of Transportation, Montana Department of Environmental Quality, Avista Corp. [formerly Washington Water Power], U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing - See related tasks

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	LCF 6. 2. 2	Evaluate existing FERC license conditions at Thompson Falls Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, Pennsylvania Power and Light of Montana, Trout Unlimited, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	LCF 6. 2. 3	Implement FERC license conditions for Kerr Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Confederated Salish and Koonetai Tribes, Montana Department of Environmental Quality, Trout Unlimited, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing - See related tasks
Bull Trout (Salvelinus confluentus)	1	LCF 6. 2. 4	Federal Columbia River Power System Biological Opinion	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, Trout Unlimited, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	LCF 6. 2. 5	Expedite Flathead Agency Irrigation District Biological Opinion	Unknown			Confederated Salish and Koonetai Tribes, U.S. Bureau of Indian Affairs, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing administration costs
Bull Trout (Salvelinus confluentus)	2	LCF 6. 2. 6	Implement Plum Creek Habitat Conservation Plan	Unknown			Plum Creek Timber Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See task 6.2.4 for Upper Clark Fork Subunit
Bull Trout (Salvelinus confluentus)	1	LCF 6. 3. 1	Fully implement State and Tribal habitat protection laws	Unknown			Idaho Department of Water Resources, Idaho Department of Environmental Quality, Idaho Department of Lands, Confederated Salish and Koonetai Tribes, Montana Department of Natural Resources and Conservation	Work type not yet selected	Labor type not yet selected	Ongoing routine administrative costs
Bull Trout (Salvelinus confluentus)	1	LCF 6. 3. 2	Encourage floodplain protection	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	PR1. 1. 1	Reduce general sediment sources	Unknown			County governments, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Idaho Watershed Advisory Groups, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing/ administrative planning costs
Bull Trout (Salvelinus confluentus)	1	PR1. 1. 2	Address forest road maintenance and hotspots	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Lands, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing/ administrative forest planning costs
Bull Trout (Salvelinus confluentus)	2	PR1. 1. 3	Improve maintenance along transportation corridors	Unknown			County governments, Idaho Department of Lands, Idaho Transportation Department, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing maintenance costs
Bull Trout (Salvelinus confluentus)	3	PR1. 1. 4	Minimize recreational development in bull trout spawning and rearing habitat	Unknown			County governments, Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Administrative costs; regulatory oversight

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Bull Trout (Salvelinus confluentus)	2	PR1. 1. 5	Assess and reduce nutrient input from forestry practices and lakeshore development	Unknown			Idaho Department of Environmental Quality, Kalispel Tribe, Washington Department of Ecology, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing, CWA required
Bull Trout (Salvelinus confluentus)	1	PR1. 1. 6	Implement water quality regulations	Unknown			County governments, Idaho Department of Environmental Quality, Montana Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing cost; CWA required
Bull Trout (Salvelinus confluentus)	1	PR1. 2. 1	Eliminate culvert barriers	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Lands, Idaho Transportation Department, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	PR1. 2. 2	Improve instream flows	Unknown			Idaho Water Resource Board, Idaho Department of Lands, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	PR1. 3. 1	Conduct watershed problem assessments	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Department of Lands, Montana Department of Environmental Quality, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing management costs

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Bull Trout (Salvelinus confluentus)	2	PR1. 3. 2	Revegetate denuded riparian areas	Unknown			Idaho Department of Lands, Kalispel Tribe, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	PR1. 3. 3	Improve grazing practices	Unknown			Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing routine planning/ administrative costs
Bull Trout (Salvelinus confluentus)	2	PR1. 3. 4	Restore stream channels	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	PR1. 3. 5	Improve instream habitat	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	PR1. 3. 6	Minimize potential stream channel degradation	Unknown			County governments, Idaho Department of Environmental Quality, Idaho Bureau of Disaster Services, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Costs part of land use planning process
Bull Trout (Salvelinus confluentus)	2	PR1. 4. 1	Minimize impacts of dam operations on bull trout in Priest Lake	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	3	PR1. 4. 2	Minimize impacts of Albeni Falls Dam on bull trout in the Priest River	Unknown			U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	PR1. 4. 3	Provide upstream passage over barriers	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Lands, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	PR1. 5. 1	Monitor fire effects and mitigate effects where necessary	Unknown			Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative regulatory costs
Bull Trout (Salvelinus confluentus)	3	PR2. 1. 1	Review fish stocking programs	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	3	PR2. 1. 2	Regulate private fish ponds	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	3	PR2. 1. 3	Encourage development of commercial sources of westslope cutthroat trout	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	PR2. 2. 1	Optimize enforcement of laws and policies that prohibit unauthorized fish transplant and stocking	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	1	PR2. 3. 1	Discourage unauthorized fish introductions	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	PR2. 3. 2	Develop bull trout education program	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	PR2. 4. 1	Develop protocols for suppressing nonnative fish	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing; see task 2.4.1 of Upper Clark Fork Recovery Subunit
Bull Trout (Salvelinus confluentus)	1	PR2. 4. 2	Evaluate site-specific conflicts with introduced sport fish	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	PR2. 5. 1	Experimentally remove established brook trout populations	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	PR2. 5. 2	Evaluate the potential for a barrier in the Thorofare to control the migration of nonnative fish	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	PR3. 1. 1	Implement adaptive management to address lake trout in Lake Pend Oreille and Priest Lake	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	PR3. 1. 2	Aggressive protection of remaining native species complexes	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	PR3. 2. 1	Minimize unintentional bull trout mortality	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	1	PR3. 2. 2	Evaluate enforcement of angling regulations and oversee scientific research	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	PR3. 2. 3	Implement angler education efforts	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing costs; part of task 3.2.2
Bull Trout (Salvelinus confluentus)	3	PR3. 2. 4	Solicit information from commercial guides	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	PR3. 3. 1	Discourage illegally introduced sport fish populations	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	PR3. 4. 1	Encourage brook trout harvest	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs
Bull Trout (Salvelinus confluentus)	2	PR4. 1. 1	Conduct genetic inventory	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	PR4. 3. 1	Implement actions to develop a refugia for Priest Lakes.	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	PR5. 1. 1	Develop standardized monitoring procedures	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	PR5. 1. 2	Increase monitoring of adfluvial bull trout populations in Priest lakes	Unknown			Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	PR5. 1. 3	Increase lake water quality monitoring	Unknown			Idaho Department of Environmental Quality, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	15-year program

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Bull Trout (Salvelinus confluentus)	1	PR5. 2. 1	Identify suitable unoccupied habitat	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	PR5. 2. 2	Map spawning habitat	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	PR5. 2. 3	Evaluate core area classification status	Unknown			Idaho Department of Fish and Game, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See task 5.2.2
Bull Trout (Salvelinus confluentus)	3	PR5. 6. 1	Investigate fluvial and resident bull trout status	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	PR5. 6. 2	Assess hybridization threat with brook trout in the Upper Priest River watershed	Unknown			Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	PR6. 1. 1	Support watershed group restoration efforts	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Watershed Advisory Groups, Kalispel Tribe, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs/CWA required
Bull Trout (Salvelinus confluentus)	1	PR6. 1. 2	Protect habitat	Unknown			County governments, Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Watershed Advisory Groups, Kalispel Tribe, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	1	PR6. 1. 3	Support habitat protection and monitoring in the Priest Lake State Forest	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, Idaho Watershed Advisory Groups, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	



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Bull Trout (Salvelinus confluentus)	2	PR6. 1. 4	Develop Priest Lakes partnerships	Unknown			Washington Department of Fish and Wildlife, Idaho Department of Fish and Game, Kalispel Tribe, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	PR6. 2. 1	Monitor compliance with the Biological Opinion for the Federal Columbia River Power System	Unknown			U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	PR6. 3. 1	Fully implement State habitat protection laws	Unknown			Washington Department of Natural Resources, Idaho Department of Fish and Game, Idaho Department of Water Resources, Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Watershed Advisory Groups	Work type not yet selected	Labor type not yet selected	Ongoing administrative planning costs
Bull Trout (Salvelinus confluentus)	1	PR6. 3. 2	Encourage floodplain protection	Unknown			County governments, Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Ongoing/ land use planning and administrative costs
Bull Trout (Salvelinus confluentus)	2	TR1.1.1	Identify unstable and problem roads causing fine sediment delivery	Unknown			Washington Department of Transportation, Columbia County Conservation District, Garfield County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities; costs associated with non-agency lands <sup>2</sup>

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Bull Trout (Salvelinus confluentus)	3	TR1.1.10	Evaluate the need to install additional permanent stream gauging stations	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, U.S. Geological Survey	Work type not yet selected	Labor type not yet selected	Costs only for the study
Bull Trout (Salvelinus confluentus)	2	TR1.1.12	Protect groundwater sources to maintain base flows in the Tucannon River	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities;
Bull Trout (Salvelinus confluentus)	2	TR1.1.13	Identify factors contributing to elevated stream temperatures	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.1.2	Move roads that are in riparian areas out of the floodplain or stabilize them	Unknown			Washington Department of Transportation, Columbia County Conservation District, Garfield County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities; costs unknown as each road may require different solutions
Bull Trout (Salvelinus confluentus)	2	TR1.1.3	Find and eliminate fine sediment sources from historical roads	Unknown			Washington Department of Transportation, Columbia County Conservation District, Garfield County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities; costs unknown as each road may require different solutions
Bull Trout (Salvelinus confluentus)	2	TR1.1.4	Improve routine road maintenance practices	Unknown			Washington Department of Transportation, Columbia County Conservation District, Garfield County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

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Bull Trout (Salvelinus confluentus)	2	TR1.1.6	Reduce sediment inputs from recreational-based channel damage	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.1.7	Develop and install educational watershed protection signs in riparian areas of State and Federal campgrounds	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	TR1.1.8	Review and act on recommendations generated from sediment monitoring plans	Unknown			Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.1.9	Assess water quality and remedy impacts from individual residences and communities	Unknown			Washington Department of Ecology, Columbia County Conservation District	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.2.1	Remove permanent and seasonal barriers to bull trout migration	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.2.2	Eliminate barriers to bull trout passage at remnant power and irrigation dams	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	TR1.2.3	Conduct a complete inventory of surface water diversions	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, Columbia County Conservation District, Pomeroy Conservation District	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	TR1.3.1	Conduct watershed analyses to evaluate past, current, and future bull trout production potential	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Focus on critical habitat and associated waters
Bull Trout (Salvelinus confluentus)	2	TR1.3.10	Evaluate bridge crossings and assess options to modify structures to protect migration corridors	Unknown			Washington Department of Transportation, Columbia County Conservation District, Garfield County Conservation District, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR1.3.11	Incorporate non-intrusive flood repair strategies	Unknown			Washington Department of Transportation, Columbia County Conservation District, Garfield County Conservation District, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.3.12	Promote programs to restore and protect floodplain and channel function	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

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Bull Trout (Salvelinus confluentus)	2	TR1.3.13	Identify and restore aggrading stream channels to restore flow and reduce subsurface flows and increase channel stability	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Surveys only
Bull Trout (Salvelinus confluentus)	3	TR1.3.14	Investigate land acquisition from willing sellers as an opportunity to protect bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.3.15	Reduce stream temperatures by enhancing riparian areas	Unknown			Washington Department of Fish and Wildlife, Washington Department of Ecology, Columbia County Conservation District, Pomeroy Conservation District, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.3.16	Reduce impacts of livestock on streams and riparian areas	Unknown			Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR1.3.17	Minimize further development in floodplains	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

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Bull Trout (Salvelinus confluentus)	2	TR1.3.2	Identify streambanks susceptible to excessive failure and mass wasting	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.3.3	Stabilize streambeds and banks	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.3.4	Protect riparian and channel habitat at managed and unmanaged campgrounds, trail systems, and recreation sites	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR1.3.5	Develop and implement comprehensive livestock grazing management plans	Unknown			Columbia County Conservation District, Pomeroy Conservation District, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.3.6	Identify and restore riparian vegetation in priority streams	Unknown			Washington Department of Fish and Wildlife, Columbia County Conservation District, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR1.3.7	Evaluate legacy effects from two historical mines on Cummings Creek	Unknown			Washington Department of Ecology, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	TR1.3.8	Reduce fine sediment inputs from agricultural land	Unknown			Washington Department of Ecology, Columbia County Conservation District, Pomeroy Conservation District, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.3.9	Maintain roadless conditions in sensitive bull trout watersheds	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.4.1	Implement bull trout identification protocol at juvenile and adult fishways at Lower Monumental, Little Goose, and Lower Granite Dams	Unknown			U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.4.2	Review existing bull trout information and determine limiting factors affecting bull trout at Lower Monumental, Little Goose, and Lower Granite Dams	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR1.4.3	Identify study needs related to habitats for foraging, migrating, and overwintering in Snake River reservoirs	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Costs covered by task 7.3.1
Bull Trout (Salvelinus confluentus)	3	TR1.5.1	Assess effects of upland activities and current upland conditions on stream and riparian function	Unknown			Columbia County Conservation District, Columbia County Weed Board	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR1.5.2	Assess current and historical effects of upland management on occupied bull trout streams	Unknown			Columbia County Conservation District, Columbia County Weed Board	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR1.5.3	Investigate use of prescribed fire	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	TR2.1.1	Evaluate potential impacts of hatchery rainbow trout	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR2.4.1	Evaluate impacts of nonnative fish species on bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR2.4.2	Perform feasibility analysis to remove brook trout in Pataha Creek	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Associated with task 2.5.1
Bull Trout (Salvelinus confluentus)	3	TR2.5.1	Determine distribution and abundance of brook trout	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Associated with task 2.4.2
Bull Trout (Salvelinus confluentus)	3	TR2.5.2	Encourage brook trout harvest in Pataha Creek	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR2.5.3	Implement experimental removal of brook trout	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	TR2.6.1	Evaluate potential impacts from fish competition	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	TR3.2.1	Reduce incidental harvest by outreach to anglers and increasing awareness of bull trout population status	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR3.2.2	Summarize existing bull trout bycatch data and implement angler interviews that target bull trout bycatch	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR3.2.3	Increase enforcement patrols during spawning periods	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	TR3.2.4	Minimize incidental bull trout mortality from angler-related hooking and handling	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Educational materials at recreation sites; repeat in year 6
Bull Trout (Salvelinus confluentus)	3	TR3.2.5	Use, review, and revise, where necessary, current management goals for bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. National Marine Fisheries Service (NOAA Fisheries), U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR3.4.1	Continue bull trout harvest closure in the Snake River Washington Recovery Unit	Unknown			Washington Department of Fish and Wildlife	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	2	TR4.1.1	Conduct genetic inventory	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	TR4.1.2	Evaluate and describe the genetic structure of bull trout in local populations	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	TR4.1.3	Perform genetic analyses on brook trout from Pataha Creek to determine whether hybridization between brook trout and bull trout has occurred	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	TR4.1.4	Monitor genetic changes in numbers and life forms to maintain long-term viability of bull trout in the Snake River Washington Recovery Unit.	Unknown			U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See Chapter 1.
Bull Trout (Salvelinus confluentus)	3	TR4.3.1	Evaluate the genetic risks and benefits of reintroduction of bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Cost covered by task 7.3.1

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	TR5.2.1	Conduct presence and absence surveys to fully describe the distribution of juvenile, subadult, and adult bull trout	Unknown			Washington Department of Fish and Wildlife, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	TR5.2.2	Determine whether the hydropower system on the lower Snake River is adversely affecting migratory bull trout in the Tucannon River Core Area	Unknown			Washington Department of Fish and Wildlife, U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	3	TR5.2.3	Conduct feasibility studies for artificial propagation and/or transplantation and implement programs	Unknown			Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs also covered by task 7.3.1
Bull Trout (Salvelinus confluentus)	3	TR6.1.1	Identify partnership opportunities	Unknown			Washington Department of Fish and Wildlife, El Dorado Irrigation District, Columbia County Conservation District, Pomeroy Conservation District, Salmon Recovery Funding Board, U.S. Fish and Wildlife Service, U.S. Forest Service, Non-governmental organizations	Work type not yet selected	Labor type not yet selected	Tasks also associated with task 7.3.1
Bull Trout (Salvelinus confluentus)	3	TR6.3.1	Work with involved agencies to modify emergency flood repair regulations that may impact bull trout habitat	Unknown			Columbia County Conservation District, Garfield County Conservation District, U.S. Federal Highway Administration, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	TR7.3.2	Periodically review progress toward recovery goals and assess recovery task priorities	Unknown			Washington Department of Fish and Wildlife, Confederated Tribes of the Umatilla Indian Reservation, Columbia County Conservation District, Pomeroy Conservation District, U.S. Fish and Wildlife Service, U.S. Forest Service, U.S. Army Corps of Engineers	Work type not yet selected	Labor type not yet selected	Existing agency responsibilities
Bull Trout (Salvelinus confluentus)	1	UCF 1. 1. 1	Reduce general sediment sources	Unknown			County governments, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Department of Transportation, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	3	UCF 1. 1. 10	Minimize recreational development in bull trout spawning and rearing habitat	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Costs associated with land use planning

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Bull Trout (Salvelinus confluentus)	2	UCF 1. 1. 2	Upgrade problem roads	Unknown			County governments, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs.
Bull Trout (Salvelinus confluentus)	1	UCF 1. 1. 3	Clean up mine waste	Unknown			Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs.
Bull Trout (Salvelinus confluentus)	1	UCF 1. 1. 4	Implement Atlantic Richfield Corporation mitigation	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	3	UCF 1. 1. 5	Monitor McDonald gold mine	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	UCF 1. 1. 6	Restore fish passage at Milltown Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Power Company, Montana Department of Justice, Natural Resource Damage Program, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	FERC relicensing issue
Bull Trout (Salvelinus confluentus)	1	UCF 1. 1. 7	Assess and mitigate nonpoint thermal pollution	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Bonneville Power Administration, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	CWA required costs.
Bull Trout (Salvelinus confluentus)	2	UCF 1. 1. 8	Reduce nutrient input	Unknown			Montana Department of Environmental Quality, Plum Creek Timber Company, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	CWA required costs.

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Bull Trout (Salvelinus confluentus)	1	UCF 1. 1. 9	Implement water quality regulations	Unknown			County governments, Montana Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	CWA required costs.
Bull Trout (Salvelinus confluentus)	1	UCF 1. 2. 1	Eliminate entrainment in diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	UCF 1. 2. 2	Provide fish passage around diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	1	UCF 1. 2. 3	Eliminate culvert barriers	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 1. 2. 4	Restore connectivity over other manmade barriers	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related tasks 1.2.2 and 1.2.3
Bull Trout (Salvelinus confluentus)	1	UCF 1. 2. 5	Improve instream flows	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Trout Unlimited, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	3	UCF 1. 2. 6	Consider fish salvage, as needed	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	UCF 1. 2. 7	Consider passage around natural barriers	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task 1.2.4

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Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 1	Conduct watershed problem assessments	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	See related tasks 1.1.7 and 1.1.9
Bull Trout (Salvelinus confluentus)	3	UCF 1. 3. 10	Reduce impacts from campsite use	Unknown			Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs
Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 11	Mitigate for transportation corridor encroachment on streams	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Transportation, U.S. Department of Transportation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	3	UCF 1. 3. 12	Reduce impacts to Foster Creek	Unknown			Montana Department of Fish, Wildlife and Parks, Job Corps, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 2	Prioritize actions on waters with restoration potential	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing



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Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 3	Revegetate denuded riparian areas	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Department of Transportation, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 4	Improve grazing practices	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 5	Restore stream channels	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing

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Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 6	Improve instream habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	UCF 1. 3. 7	Minimize potential stream channel degradation	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, U.S. Department of Transportation, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	UCF 1. 3. 8	Manage beaver to function naturally in maintaining wetlands	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Department of Agriculture, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	UCF 1. 3. 9	Reduce riparian firewood harvest	Unknown			U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative and planning costs

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Bull Trout (Salvelinus confluentus)	2	UCF 1. 4. 1	Reduce reservoir operational impacts	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 1. 4. 2	Provide instream flow downstream of dams	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	UCF 1. 4. 3	Operate Milltown Dam to minimize impact on native fish	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Power Company, U.S. Environmental Protection Agency	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 1. 4. 4	Evaluate fish passage at Painted Rocks Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	UCF 1. 5. 1	Mitigate for legacy effects of mining-related timber management practices	Unknown			Montana Department of Natural Resources and Conservation, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	1	UCF 1. 5. 2	Monitor fire effects and mitigate effects where necessary	Unknown			Montana Department of Natural Resources and Conservation, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs.
Bull Trout (Salvelinus confluentus)	3	UCF 2. 1. 1	Review fish stocking programs	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task 2.2.1
Bull Trout (Salvelinus confluentus)	2	UCF 2. 1. 2	Regulate private fish ponds	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	Ongoing fish management costs

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Bull Trout (Salvelinus confluentus)	2	UCF 2. 1. 3	Encourage development of commercial sources of westslope cutthroat trout	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	UCF 2. 3. 1	Discourage unauthorized fish introductions	Unknown			Montana Department of Fish, Wildlife and Parks, Trout Unlimited, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	UCF 2. 3. 2	Develop bull trout education program	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing, costs part of statewide program
Bull Trout (Salvelinus confluentus)	2	UCF 2. 5. 1	Experimentally remove established brook trout populations	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 2. 5. 2	Suppress northern pike in Clearwater Lakes chain	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 2. 5. 3	Reduce brown trout numbers in portions of mainstem rivers	Unknown			Montana Department of Fish, Wildlife and Parks	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 2. 6. 1	Evaluate bull trout¿brown trout interaction	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task 2.5.3

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Bull Trout (Salvelinus confluentus)	2	UCF 3. 1. 1	Implement adaptive management of native fish management plans	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Transportation, Montana Department of Environmental Quality, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Department of Transportation, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	2	UCF 3. 1. 2	Aggressively protect remaining native species complexes	Unknown			Montana Department of Fish, Wildlife and Parks, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 3. 2. 1	Minimize unintentional mortality of bull trout	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related tasks 3.1.1. and 3.2.1
Bull Trout (Salvelinus confluentus)	2	UCF 3. 2. 2	Evaluate enforcement of angling regulations and oversee scientific research	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related tasks 3.2.3 and 3.4.1
Bull Trout (Salvelinus confluentus)	2	UCF 3. 2. 3	Implement angler education efforts	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 3.2.2

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Bull Trout (Salvelinus confluentus)	3	UCF 3. 2. 4	Solicit information from commercial guides	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Routine administrative/planning costs
Bull Trout (Salvelinus confluentus)	1	UCF 3. 3. 1	Evaluate site-specific conflicts with introduced sport fish	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs.
Bull Trout (Salvelinus confluentus)	2	UCF 3. 4. 1	Evaluate effects of existing and proposed angling regulations on bull trout in heavily fished waters	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related tasks 3.2.2 and 3.2.3
Bull Trout (Salvelinus confluentus)	2	UCF 4. 1. 1	Conduct genetic inventory	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task in Chapter 1 of Recovery Plan
Bull Trout (Salvelinus confluentus)	1	UCF 5. 2. 1	Identify suitable unoccupied habitat	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 5. 2. 2	Investigate bull trout movement and distribution	Unknown			Montana Department of Fish, Wildlife and Parks, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	UCF 5. 2. 3	Evaluate importance of contributing waters	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

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Bull Trout (Salvelinus confluentus)	2	UCF 5. 2. 4	Map spawning habitat	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	UCF 5. 2. 5	Coordinate monitoring of fish movement	Unknown			Montana Department of Fish, Wildlife and Parks, Idaho Department of Fish and Game, Avista Corp. [formerly Washington Water Power], U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 5.2.2
Bull Trout (Salvelinus confluentus)	2	UCF 5. 2. 6	Evaluate water temperature as a limiting factor	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	UCF 5. 3. 1	Develop and implement best management practices for managing water diversions	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs

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Bull Trout (Salvelinus confluentus)	3	UCF 5. 3. 2	Implement best management practices for grazing in riparian zones	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	See related task 1.3.4
Bull Trout (Salvelinus confluentus)	2	UCF 5. 3. 3	Expand monitoring of forestry best management practices	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Plum Creek Timber Company, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task 1.3.4
Bull Trout (Salvelinus confluentus)	2	UCF 5. 3. 4	Protect groundwater inflow sources	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Plum Creek Timber Company, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	3	UCF 5. 4. 1	Monitor fish health in private hatcheries	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing State fish health costs
Bull Trout (Salvelinus confluentus)	3	UCF 5. 4. 2	Prevent spread of fish pathogens	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	See related task 2.2.1



Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	3	UCF 5. 4. 3	Evaluate effects of whirling disease on bull trout	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	3	UCF 5. 6. 1	Investigate status of migratory and resident life history forms	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See related task 5.2.2
Bull Trout (Salvelinus confluentus)	2	UCF 5. 6. 2	Research origin of migratory bull trout at Milltown Dam	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Power Company	Work type not yet selected	Labor type not yet selected	3-year project
Bull Trout (Salvelinus confluentus)	2	UCF 6. 1. 1	Support watershed group restoration efforts	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality, Trout Unlimited, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Environmental Protection Agency, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	See related tasks 1.3.1 and 1.3.2
Bull Trout (Salvelinus confluentus)	2	UCF 6. 1. 2	Protect habitat	Ongoing Current			Montana Department of Fish, Wildlife and Parks, U.S. Forest Service	Acquisition	Labor type not yet selected	Costs will be evaluated through task 6.1.1. In 2010 there was a major public habitat acquisition (USFS and MFWP) of roughly 300,000 of former Plum Creek lands under the Montana Legacy Project

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	UCF 6. 1. 3	Integrate watershed restoration efforts on public and private lands	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Trout Unlimited, Plum Creek Timber Company, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	2	UCF 6. 1. 4	Develop strategy for implementation participation	Unknown			Montana Department of Fish, Wildlife and Parks, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	UCF 6. 2. 3	Complete Federal Energy Regulatory Commission licensing of Milltown Dam	Unknown			Montana Power Company, U.S. Federal Energy Regulatory Commission, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing administrative costs
Bull Trout (Salvelinus confluentus)	1	UCF 6. 2. 4	Implement Plum Creek Habitat Conservation Plan	Unknown			Plum Creek Timber Company, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Ongoing 30-year agreement
Bull Trout (Salvelinus confluentus)	2	UCF 6. 3. 1	Fully implement State habitat protection laws	Unknown			Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Plum Creek Timber Company	Work type not yet selected	Labor type not yet selected	Ongoing State administrative and regulatory costs
Bull Trout (Salvelinus confluentus)	1	UCF 6. 3. 2	Encourage floodplain protection	Unknown			County governments, Montana Department of Fish, Wildlife and Parks, Montana Department of Natural Resources and Conservation, Montana Department of Environmental Quality	Work type not yet selected	Labor type not yet selected	Ongoing

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	1	WR1.1.1	Reduce sediment production from roads.	Unknown			Idaho Department of Environmental Quality, Idaho Department of Lands, Idaho Transportation Department, Boise Cascade Corporation, Inc., U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.
Bull Trout (Salvelinus confluentus)	1	WR1.2.1	Inventory culverts to identify those inhibiting fish passage, and develop program to improve fish passage.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, Boise Cascade Corporation, Inc., U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing
Bull Trout (Salvelinus confluentus)	1	WR1.2.2	Identify facilities and actions needed to prevent the loss of bull trout at irrigation diversions.	Unknown			Idaho Department of Fish and Game, Idaho Department of Water Resources, Diversion Operators in SW Idaho, U.S. Forest Service, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	1	WR1.3.1	Identify areas where livestock grazing has negatively affected riparian and aquatic habitats, and implement actions to restore and improve stream and riparian habitat.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service, Private landowners, Natural Resources Conservation Service	Work type not yet selected	Labor type not yet selected	Cost estimates for identifying areas affected by grazing.
Bull Trout (Salvelinus confluentus)	1	WR2.4.1	Evaluate various methods to reduce the abundance of brook trout.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	WR2.5.1	Conduct surveys to determine the distribution of brook trout in the Weiser River Recovery Subunit.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	WR2.5.2	Conduct a study on the feasibility of reducing brook trout abundance where they overlap with bull trout and in areas where bull trout may become established.	Unknown			Idaho Department of Fish and Game, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Task dependent on results of task 2.4.1.
Bull Trout (Salvelinus confluentus)	3	WR3.3.1	Evaluate the effects of fish stocking and the fisheries on bull trout.	Unknown			Idaho Department of Fish and Game	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	3	WR4.1.1	Collect samples for genetic analysis to contribute to establishing a program to understand the genetic baseline and monitor genetic changes throughout the range of bull trout (see Chapter 1 narrative).	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	See chapter 1.
Bull Trout (Salvelinus confluentus)	3	WR4.1.2	Describe and monitor genetic and phenotypic characteristics of bull trout in core areas, and incorporate information into management strategies.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Cost estimate for the collection of tissue during existing surveys.
Bull Trout (Salvelinus confluentus)	1	WR4.2.1	Prevent the establishment of barriers that may inhibit the movement of bull trout within the Weiser River Recovery Subunit.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	Ongoing.

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Bull Trout (Salvelinus confluentus)	2	WR5.5.1	Continue surveys to refine information on bull trout distribution, abundance, life histories, and habitats.	Unknown			Idaho Department of Fish and Game, Idaho Department of Environmental Quality, Idaho Department of Lands, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	
Bull Trout (Salvelinus confluentus)	2	WR5.5.2	Develop a strategy to establish new local populations in unoccupied areas identified as having potential spawning and rearing habitat.	Unknown			Idaho Department of Fish and Game, Idaho Department of Lands, U.S. Fish and Wildlife Service, U.S. Forest Service	Work type not yet selected	Labor type not yet selected	